

November 11, 2020

CURRICULUM VITAE

JODY CULHAM

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Citizenship: Canadian

ACADEMIC CAREER

Department of Psychology

Western University (formerly University of Western Ontario)

Professor, July 2013 – present

Visiting Professor and Academic Nomad (Sabbatical): Centre for Mind/Brain Sciences, *University of Trento*, Italy (September 2015-February 2016); *Scuola Internazionale Superiore di Studi Avanzati (SISSA)*, Trieste, Italy (March-April 2016); Centre for Functional MRI of the Brain (FMRIB), *Oxford University*, UK (May 2016); *University of Coimbra*, Portugal (June 2016); *Philipps University Marburg* and *Justus Liebig University Giessen* (July 2016), *Tokyo Institute of Technology* (August 2016).

Associate Professor, July 2007 – June 2013

Visiting Associate Professor (Sabbatical), Department of Cognitive Neuroscience, *University of Maastricht*, Netherlands (September-December 2008) and Department of Physiology and Residence of Higher Studies, *University of Bologna*, Italy (January-May 2009)

Assistant Professor, July 2001 – June 2007

Affiliations: Brain and Mind Institute; Graduate Program in Neuroscience; Canadian Action and Perception Network

Awards:

Natural Sciences and Engineering Research Council (Canada) E. W. R. Steacie Memorial Fellowship, June 2010

Senior Fellowship, University of Bologna, January-March 2009

Western Faculty Scholar Award, March 2008

Western Faculty of Medicine Dean's Award for Excellence in Research in the Team category, CIHR Group on Action and Perception, 2007

Canadian Institutes of Health Research New Investigator Award, 2003

Ontario Premier's Research Excellence Award, 2003

McDonnell-Pew Postdoctoral Fellow

Western University

May 1997 - June 2001

Advisor: Dr. Melvyn A. Goodale

Affiliations: Vision and Motor Control Lab, CIHR Group on Action and Perception

Awards:

McDonnell-Pew Program in Cognitive Neuroscience, Investigator-initiated training grant, 1998-2001.

Doctor of Philosophy in Psychology (Cognition, Brain, and Behavior Program)***Harvard University***

September 1992 - June 1997

Ph.D. Thesis: "Attentive tracking of moving targets: Psychophysical and neuroimaging evidence for an attentional motion process."

Advisor: Dr. Patrick Cavanagh

Affiliations: Harvard Vision Sciences Lab, Nancy Kanwisher's High-level Vision Lab (Harvard); Massachusetts General Hospital Nuclear Magnetic Resonance Center

Awards:

Natural Sciences and Engineering Research Council (Canada) Postgraduate Scholarship A (declined: award untenable outside Canada)

Bachelor of Science with First Class Honours in Psychology***The University of Calgary***

September 1986 - June 1991

Honours thesis: "Contrast does not account for age differences in counterphase flicker thresholds."

Advisor: Dr. Donald Kline

Affiliations: Don Kline's Vision and Aging Lab; Jane Raymond's Visual Perception Lab

Awards:

Natural Sciences and Engineering Research Council (Canada) Undergraduate Student Research Award, 1991

Department of Psychology Undergraduate Research Award, 1991

Gordon C. Swann Bursary, 1990-91

Louise McKinney Scholarship, 1989-90

Gary A. S. Owen Bursary, 1986

RESEARCH INTERESTS

Topics:

Cognitive neuroscience, sensorimotor control, visual perception, real-world stimuli and actions, virtual reality, parietal cortex, grasping, reaching, tool use, object recognition, size and distance perception

Techniques:

functional magnetic resonance imaging (fMRI), behaviour, kinematics, psychophysics, neuropsychology, functional near-infrared spectroscopy (fNIRS)

RESEARCH GRANTS AND AWARDS: CURRENT, PRINCIPAL INVESTIGATOR (~\$1M)***New Frontiers in Research Fund******Exploration Grant***

"Naturalistic Cognitive Neuroscience Through Immersive Virtual Games"

April 2020-March 2022

C\$250,000

Co-applicants: Joern Diedrichsen [co-PI], Mike Katchabaw and Adrian Owen [co-applicants], and Ingrid Johnsrude [collaborator]

**Canada First Research Excellence Fund BrainsCAN Program
Accelerator Stimulus Grant (Internal Funding)**

“Development of Virtual Gaming Environments for Functional Magnetic Resonance Imaging”
July 1, 2019-present
C\$89,854
Co-applicants: Ingrid Johnsrude, Julio Martinez-Trujillo

**Natural Sciences and Engineering Research Council
Research Tools and Instruments**

“Equipment for Neuroimaging of Virtual Stimuli and Virtual Interactions”
April 2018
C\$146,517 for equipment
Co-applicants: Roy Eagleson, Mel Goodale, Ingrid Johnsrude, Stefan Köhler, Julio Martinez-Trujillo, Ravi Menon, Derek Mitchell, Adrian Owen, and Terry Peters

**Natural Sciences and Engineering Research Council
Discovery Grant**

“Behavioral and Neuroimaging Investigations of Perception and Action with Real-World Objects”
April 2016-March 2021 (extended until March 2022 due to COVID-19)
C\$546,000 (C\$91,000 x 5 years, extended to 6 years) for operating expenses

- One of top two funded grants across Western in that competition

RESEARCH GRANTS AND AWARDS: CURRENT, TEAM (\$67M+)

Co-Applicant

Canada First Research Excellence Fund

2016-2023
“BrainsCAN: Brain Health for Life”
<http://www.uwo.ca/brainscan/>
C\$66,000,000 for institutional development
Co-applicants: Adrian Owen [PI], Ravi Menon and Lisa Saksida [Co-Directors], Daniel Ansari, Joern Diedrichsen, Stefan Everling, Mel Goodale, Ingrid Johnsrude, Terry Peters

- Largest grant ever received by Western University

Past Role: Co-Director of Accelerator Internal Granting Program (Jan. 2017 – Oct. 2018)

Co-Applicant; Local Grant Coordinator for Western University Component; Steering Committee Member

Natural Sciences and Engineering Research Council

Collaborative Research and Training Experience (CREATE) Grant

(paired with a German Research Foundation (Deutsche Forschungsgemeinschaft, DFG)
International Research Training Group (IRTG) program for student exchanges)

“The Brain in Action”
2014-2020 (Extended until March 2023)
\$1,650,000 (\$300,000 x 5.5 years; matched by €7,200,000 from DFG)
Co-investigators: Doug Crawford [CREATE Principal Investigator], Gunnar Blohm, Jody Culham, Stefan Everling, Mel Goodale, Laurence Harris, Denise Henriques, Doug Munoz, Niko Troje, & Thilo Womelsdorf
[German co-investigators: Frank Bremmer [IRTG Principal Investigator], Katja Fiehler [Co-spokesperson], Wolfgang Einhäuser-Treyer, Roland Fleming, Karl Gegenfurtner, Tilo Kircher, Wolfgang Oertel, Jörn Munzert, Anna Schubö, & Gudrun Schwarzer

RESEARCH GRANTS AND AWARDS: PAST INDIVIDUAL FUNDING (\$2.9M)

Canadian Institutes of Health Research Operating Grant

“Neural Coding and Interactions for Human Brain Areas Involved in Hand Actions”
 October 2013-September 2018
 C\$641,710 (C\$128,342 x 5 years) for operating expenses

- Ranked #1 in competition (Behavioral Sciences C)

Co-Applicant Natural Sciences and Engineering Research Council Research Tools and Instruments Grant

2015
 "A Portable System for Integrated Measurement of Human Actions"
 C\$139,655 for research equipment
 Co-applicants: Brian Corneil [Principal Investigator], Jody Culham, Mel Goodale, Paul Gribble, & Andrew Pruszynski

Natural Sciences and Engineering Research Council Discovery Grant + Discovery Grant Accelerator Supplement

“Behavioral and Neuroimaging Investigations of Objects in the Real World”
 April 2011-March 2016
 C\$280,000 (C\$56,000 x 5 years) for operating expenses
 C\$120,000 (C\$40,000 x 3 years) for accelerator supplement

- Accelerator supplement program “provides substantial and timely additional resources to accelerate progress and maximize the impact of superior research programs” that are “highly rated in terms of originality and innovation”

University of Western Ontario (Office of the VP-Research and Faculty of Social Sciences) Western Strategic Support for CIHR Success

“Neural Coding and Interactions for Human Brain Regions Involved in Hand Actions”
 March 2013-February 2014
 C\$22,500 for pilot data collection

Canadian Institutes of Health Research Operating Grant

"Neural Coding Within Human Brain Regions Involved in Grasping and Reaching" (Grant # MOP 84293)
 September 2007-August 2012
 C\$435,845 (\$87,169/year x 5 years) for operating expenses

Natural Sciences and Engineering Research Council E. W. R. Steacie Memorial Fellowship

“Neuroimaging of Real-World Actions and Objects”
 April 2010-March 2012
 C\$180,000 (\$90,000/year x 2 years) for salary support
 C\$250,000 (\$125,000/year x 2 years) operating grant supplement
 C\$131,225 associated Research Tools and Instruments grant
 “Equipment for Cognitive Neuroscience Experiments on Real World Objects and Actions”

Natural Sciences and Engineering Research Council Discovery Grant

“The Behavioral Properties and Neural Substrates of Self-Directed Reaching and Prehension Movements” (Grant # 249877-2006 RGPIN)
 April 2006-March 2011
 C\$131,550 (C\$26,310 x 5 years) for operating expenses

University of Western Ontario**Faculty Scholar Award**

March 2008-February 2010

C\$14,000

Canadian Institutes of Health Research**New Investigator Salary Support Award**

"The Neural Substrates of Object Grasping in Humans" (Grant # MSH 63611)

July 2003-June 2008

C\$250,000 (C\$50,000/year x 5 years) toward salary support

Canadian Institutes of Health Research**Operating Grant**

"The Neural Substrates of Object Grasping in Humans" (Grant # MOP 62986)

April 2003-March 2007

C\$325,580 (\$81,395/year x 4 years) for operating expenses

Ontario Ministry of Enterprise, Opportunity & Innovation**Premier's Research Excellence Award**

"Mapping Human Brain Areas Involved in the Control of Action" (Grant # PREA 08/3140)

2003-2008

C\$150,000 (over 5 years) for trainee support

Natural Sciences and Engineering Research Council**Operating Grant**

"Neural Substrates of High-level Motion Processing" (Grant # 249877-02 RGPIN)

April 2002-March 2006

C\$112,000 (C\$28,000/year x 4 years) for operating expenses

Canadian Foundation for Innovation/Ontario Innovation Trust**New Opportunities Funds**

"Laboratory for Functional Magnetic Resonance Imaging of Human Action"

2003

C\$224,634 (CFI \$78,254, OIT \$78,254, in-kind contributions \$68,126) for infrastructure

Natural Sciences and Engineering Research Council**Equipment Grant**

"Hardware for fMRI Data Acquisition" (Grant # 256028-02 EQPEQ)

April 2002

C\$5,000 for fMRI surface coil construction

McDonnell-Pew Program in Cognitive Neuroscience**Investigator-Initiated Training Grant**

"Human Neural Substrates of Visually-Guided Grasping"

September 1998 - August 2001

C\$229,000 (US\$150,000)

RESEARCH GRANTS AND AWARDS: PAST TEAM FUNDING (\$7.2M)**Acting Director (2010-2015); Co-Applicant****Natural Sciences and Engineering Research Council****Collaborative Research and Training Experience (CREATE) Grant**

"Computational Approaches to Sensorimotor Transformations for the Control of Action"

2009-2015

C\$1,650,000 (\$300,000 x 5 years + \$150,000)

Co-Investigators: Melvyn Goodale [Original Principal Investigator], Gunnar Blohm, Brian Corneil, Douglas Crawford, Jody Culham, Randy Flanagan, Denise Henriques, Mike Jenkin, Doug Munoz, Steve Scott, & Wolfgang Stuerzlinger

Co-Applicant
Canadian Foundation for Innovation
Leading Edge Fund

“Centre for Functional and Metabolic Mapping”

2012-2017

\$6,235,244 [\$2,494,098 from CFI with equal match from Ontario Research Fund; remainder in-kind]

Co-investigators: Ravi Menon [Principal Investigator], Daniel Ansari, Blaine Chronik, Jody Culham, Rhodri Cusack, Stefan Everling, Mel Goodale, Victor Han, Adrian Owen, & Peter Williamson

Co-Applicant
Canadian Foundation for Innovation
New Initiatives Fund

“Centre for the Development and Testing of MR-compatible Medical Devices and Technology”

2012-2017

\$705,911 (with equal match from Ontario Research Fund)

Co-investigators: Blaine Chronik [Principal Investigator], Jody Culham John de Bruyn, Nicola De Zanche, Aaron Fenster, David Holdsworth, Ravi Menon, Michael Noseworthy, Shaun Salisbury, & Kevin Shoemaker

Co-Applicant
Ontario Research Fund
Research Excellence Fund

“Centre for Brain and Mind Neuroimaging Facility”

C\$2,300,000 for personnel funding (in addition to internal matching funds)

2006-2013

Co-applicants: Melvyn Goodale [Principal Investigator], Rob Bartha, Blaine Chronik, Jody Culham, James Danckert, Stefan Everling, Joe Gati, Marc Joanisse, Stefan Köhler, Ravi Menon, Bruce Morton, Philip Servos, & Tutis Vilis

Co-Applicant
Natural Sciences and Engineering Research Council
Research Tools and Instruments – Category 1

“Eye Tracking and 3-Dimensional Visualization: Synergistic and Ecologically Valid Approaches to Neuroimaging Research”

2012

\$109,066

Co-investigators: Derek Mitchell [Principal Investigator], Daniel Ansari, Jody Culham, Mel Goodale, Mark Joanisse, & Adrian Owen

Co-Applicant
Canadian Institutes of Health Research
Resource Grant

“Centre for Functional and Metabolic Mapping” (Grant # PRG-82676)

C\$696,850 (\$139,370 x 5 years) for MRI facility expenses

2007-2012

Co-applicants: Ravi Menon [Principal Investigator], Blaine Chronik, Jody Culham, Gregory Dekaban, Stefan Everling, Paula Foster, Melvyn Goodale, Murray Huff, & Peter Williamson

Co-Applicant***Natural Sciences and Engineering Research Council******Research Tools and Instruments – Category 1***

“Transcranial Magnetic Stimulation for Research in Cognitive Neuroscience”

2010

\$97,178

Co-investigators: Mel Goodale [Principal Investigator], Daniel Ansari, Blaine Chronik, Jody Culham, Paul Gribble, Marc Joanisse, Stefan Kohler, Paul Minda, & Derek Mitchell

Co-Applicant***Canadian Institutes of Health Research Group Grant***

“Neural Transformations for Perception and Action” (Grant # MGC 36036)

January 2004 - September 2009

C\$2,272,200 (C\$454,440 x 5 years) for group collaboration operating funds

Co-Investigators: Melvyn Goodale [Principal Investigator], Brian Corneil, Douglas Crawford, Jody Culham, Stefan Everling, Paul Gribble, Stefan Köhler, Ravi Menon, Douglas Tweed, & Tutis Vilis

Co-Applicant***Lawson Health Research Institute***

“Functional Organization of the Brain in Adult Epileptic Patients with Non-progressive Lesions Acquired Early in Life”

January 2004 – December 2006

C\$12,000 for operating funds

Co-Investigators: Sam Wiebe [Principal Investigator], Jody Culham, James Danckert, Seyed Mirsattari, & Susan Piggott

Co-Applicant***Physicians’ Services Incorporated Foundation***

“Using Functional MRI to Explore the Reorganization of Cortical Functions in Patients with Intractable Epilepsy: Pre- and Post-surgical Evaluations”

July 2004- June 2006

C\$87,000 for operating funds

Co-Investigators: Seyed Mirsattari [Principal Investigator], Jody Culham, James Danckert, Susan Piggott, & Sam Wiebe

RESEARCH GRANTS AND AWARDS: SUBMITTED APPLICATIONS (\$16M)***Principal Investigator******Canada Research Chairs***

Tier 1 Canada Research Chair in Immersive Neuroscience

Submitted 2020-04-08

2020-2027

C\$1.4M for salary support

Brain Canada***Platform Support Grant***

Centre for Functional and Metabolic Mapping

January 2021-December 2023

C\$2.85M for facility support

Co-Investigators: Ravi Menon [Principal Investigator], Corey Baron, Robert Bartha, Jody Culham, Stefan Everling, Elizabeth Finger, Ali Khan, Marieke Mur, Adrian Owen, Lena Palaniyappan

Canadian Foundation for Innovation/Ontario Innovation Fund

Immersive Virtual Reality for Health

Submitted January 2020

C\$13M for equipment

Co-Investigators: Rajnikant Patel and Kevin Shoemaker [Principal Investigators], Michael Bauer, Richard Booth, Jody Culham, Timothy Doherty, Katarina Grolinger, Hanif Ladak, Joy MacDermid, Keith St. Lawrence.

TEACHING

University of Western Ontario Undergraduate Courses

Psychology 2220: Introduction to Behavioral and Cognitive Neuroscience (undergraduate course)

Instructor (2014-present)

Winter 2019: rating of overall effectiveness: 6.5/7; rating of course: 6.4/7; enrollment: 185

Neuroscience 2000: Introduction to Neuroscience (undergraduate course)

Course Coordinator (2018-present) and Instructor (2014-2020)

Winter 2019: rating of overall effectiveness: 6.3/7; rating of course: 6.3/7; enrollment: 44

Psychology 1200: Biological Foundations of Behavior (undergraduate course)

Instructor (2002-2010)

2009-10: rating of overall effectiveness: 6.3/7; rating of course: 6.0/7

University of Western Ontario Graduate Courses

Psychology 9223: Neuroimaging of Cognition (graduate seminar)

Instructor (2002-present)

Fall 2018: rating of instructor effectiveness: 6.7/7; rating of course: 6.5/7

Psychology 9224: Brain Organization and Connectivity (graduate seminar)

Instructor

Winter 2011: rating of instructor: 6.4/7; rating of course: 6.0/7

Awards

Nominated for Television Ontario (TVO) *Big Ideas Ontario's Best Lecturer Competition*, March 2006

University of Western Ontario Students' Council *Teaching Honour Roll Award of Excellence*, 2003-2004

Harvard University *Certificate of Distinction in Teaching*, 1993-1994, 1994-1995

Guest Lectures

CEGEP course on Cognitive Neuroscience, Vanier College, Montreal, February 2018, "Blind patients who can see."

Undergraduate course on Cognitive Neuroscience, University of Trento, February 2015, "The seeing brain"

Undergraduate course on Cognitive Neuroscience, University of Trento, October 2015, "fMRI: Experimental design and analysis"

Neuroscience 2000, "How to get involved in research as an undergraduate", 2012

Neuroscience 9500: Principles of Neuroscience (graduate survey course)

Lecturer (two contact hours per year), "Why does the brain have so many visual areas?"

2002-2006; "Methods in cognitive neuroscience", 2005-2006; "What neuroscientists can and cannot learn from brain imaging", 2007-2011; "From neurons to neuroimaging: Relationship between neural activity and the fMRI BOLD signal", 2012.

Neuroscience Survival Skills (first year graduate course on academia)

Guest lecture on "Writing successful scholarship applications", 2010-2011.

Graduate fMRI course, University of Maastricht, October 2009

Guest lecture on "Basic and Advanced Analyses for fMRI"

Undergraduate course on Pharmacy, University of Bologna, April 2009, "fMRI and Neuropsychology"

Lecture to Ph.D. students, Department of Human and General Physiology, University of Bologna, April 2009, “What neuroscientists can and cannot learn from brain imaging”

Neuroscience 506b: Statistics for Neuroscience (graduate course)

Guest Lecture on “Statistics for Brain Imaging” (two contact hours per year), 2005-2008

Psychology 324: Neuropsychology and Cognitive Neuroscience (undergraduate course). Guest lectures on “Methods in Cognitive Neuroscience and Neuropsychology” and “Vision and Visual Impairments Arising from Brain Lesions” (6 contact hours), Winter 2008.

Psychology 215: Introduction to Sensation and Perception (undergraduate course)

Course coordinator and co-instructor (with 8 others), Winter 2002 (5.3/7)

World Wide Web Courses

fMRI for Newbies (formerly known as *fMRI for Dummies*)

<http://www.fmri4newbies.com>

10,000+ hits/year

Neuroimaging Web-Based Instruction (NEWBI) for fMRI

<http://www.newbi4fmri.com/>

Online tutorials for fMRI data analysis

SUPERVISION OF TRAINEES AND PERSONNEL: CURRENT

Postdoctoral Fellow Supervisor (2 + 1 incoming)

Guy Rens (beginning Feb. 2020)

Carol Coricelli (will begin Sept. 2020)

Graduate Student Supervisor (1 + 3 incoming)

Margarita Maltseva, Psychology MSc/PhD Program (2013-present)

Jaana Leppala, Neuroscience (will begin Sept. 2020)

Cassandra Bacher, Neuroscience (will begin Sept. 2020, co-supervised with Marieke Mur and Mel Goodale)

Emily Davidson, Neuroscience (will begin Sept. 2020, co-supervised with Mike Anderson)

Visiting Scholar Co-supervisor (5)

Özlem Sensoy, PhD student, Justus-Liebig University, Giessen Germany (NSERC CREATE-IRTG training program, 2017-present)

Lina Klein, PhD student, Justus-Liebig University, Giessen Germany (NSERC CREATE-IRTG training program, 2017-present)

Mareike Pazen, PhD student, Philipps University Marburg, Germany (NSERC CREATE-IRTG training program, 2017-present)

Paulina Cuevas, PhD student Philipps University Marburg, Germany (NSERC CREATE-IRTG training program, 2017-present)

Carol Coricelli, Postdoctoral Fellow, SISSA, Italy (2017-present)

Staff Supervisor (4)

Karsten Babin, Virtual Reality Programmer (2019-present)

Kevin Stubbs, Part-time Programmer for Culham Lab (2013-present) and Full-time fNIRS Programmer for BrainsCAN (2020-present)

Marisa Donnelly, Undergraduate Coordinator (2016-present)

Ethan Poris, Research Assistant (2019-present)

Other

Honours Students (or equivalent): 37 completed

Scholar's Electives Supervisor: 8 completed

Visiting Scholar Supervisor: 9 completed

High School Coop Students: 2 completed

NSERC USRA Students: 7 completed

Graduate Advisory Committees: 13 ongoing, 41 completed
 Graduate Examining Committees: 42 (Western) + 13 (external examiner elsewhere) completed
 Ph.D. Comprehensive Examiner: 23 completed

PLACEMENT OF PRIOR TRAINEES

Postdoctoral Fellows (15)

- 13 of 15 have landed tenure-track academic positions
 - Chelsea Ekstrand (2019-2020), Assistant Professor, University of Lethbridge
 - co-supervised with Dr. Ingrid Johnsrude
 - recipient of BrainsCAN Postdoctoral Fellowship and NSERC Postdoctoral Fellowship
 - Kaitlin Laidlaw (2016-2019), Data Analyst, Libro Financial
 - co-supervised with Dr. Mel Goodale
 - recipient of BrainsCAN Postdoctoral Fellowship, NSERC Postdoctoral Fellowship, and Brain and Mind Institute Postdoctoral Fellowship
 - Erez Freud (2015-2018, co-supervised with Marlene Behrmann at Carnegie Mellon University)
 - tenure-track Assistant Professor, York University
 - recipient of *Israeli Science Foundation* and *Rothschild* (Israel) Postdoctoral Fellowships
 - recipient of Center of Neural Basis of Cognition Strick Prize for outstanding paper (Freud et al., 2017, *eLife*)
 - Juan Chen (2012-2018, co-supervised with Mel Goodale)
 - Professor, South China Normal University
 - Lucilla Cardinali (2012-2016)
 - postdoc, Italian Institute of Technology, Genova, Italy (2017-present)
 - recipient of *Fyssen Foundation* (France) Postdoctoral Fellowship
 - recipient of *Boehringer Ingelheim Fonds* (Europe) Travel Grant
 - Jenni Karl (2014-2015)
 - tenure-track Assistant Professor at Thompson Rivers University, British Columbia
 - recipient of NSERC Postdoctoral Fellowship
 - Sara Fabbri (2011-2014)
 - Assistant Professor at University of Groningen
 - *Radboud Excellence Initiative* postdoctoral fellow at Donders Institute, Radboud University Nijmegen
 - Michael Barnett-Cowan (2011-2013)
 - Associate Professor at University of Waterloo
 - recipient of Banting Postdoctoral Fellowship and Ontario Ministry of Research and Innovation Postdoctoral Fellowship
 - Jacqueline Snow (Postdoctoral Fellow, 2008-2013)
 - Associate Professor at University of Nevada Reno
 - recipient of *Concepts, Actions and Objects* conference travel grant for best conference abstract, *Cognitive Neuropsychology* (journal) travel prize, *Object Perception and Memory* conference travel award
 - Stephanie Rossit (Postdoctoral Fellow, 2009-2011)
 - tenure-track Lecturer (Assistant Professor) at University of East Anglia (U.K.)
 - John Zettel (Postdoctoral Fellow, 2006-2008)
 - tenure-track Assistant Professor at University of Guelph
 - Jessica Witt (Postdoctoral Fellow, 2006-2007)
 - Professor at Colorado State University
 - Anthony Singhal (Postdoctoral Fellow, 2004-2006)
 - Department Chair in Psychology and Associate Professor at University of Alberta
 - Cristiana Cavina Pratesi (Postdoctoral Fellow, 2004-2006)
 - Lecturer (Assistant Professor) at the University of Durham, U.K. [deceased]
 - Greg Króliczak (Postdoctoral Fellow, 2005-2006)
 - Professor at Adam Mickiewicz University, Poznan Poland

Graduate Students (13)

- 5 of 13 have landed or resumed academic positions

- Laura Cabral, Neuroscience PhD (2016-2019)
- Postdoctoral Fellow, University of Pittsburgh
 - Co-supervised with Rhodri Cusack
- Ben Chang, Neuroscience PhD Candidate (2014-2018)
- Infrastructure Practice, Info-Tech Research Group
- Scott Macdonald, Neuroscience MSc-to-PhD (2011-2017)
- Consultant, Info-Tech Research Group
 - recipient of Ontario Graduate Scholarship
- Alexander Yan, Neuroscience PhD Candidate (2013-2017)
- medical student, Western University
 - recipient of CIHR MD-PhD Studentship
- Teresa Figley (née McAdam), Neuroscience PhD Candidate (2009-2014)
- Research coordinator, University of Manitoba
 - recipient of CIHR PhD Scholarship
- Joey Paciocco (M.Sc., Neuroscience, 2010-2012)
- Administrative Officer, Research Development, Services and Ethics, Western University
- Mark Daley (M.Sc., Neuroscience, 2010-2011)
- Special Advisor to the President (Data Strategy), Western University
 - resumed position as Associate Professor, Department of Computer Science, Western University
- Jason Gallivan (M.Sc. and PhD, Neuroscience, 2005-2011)
- tenure-track Assistant Professor at Queen's University
 - recipient of NSERC Banting postdoctoral fellowship, Queen's University
 - recipient of 3 *CIHR Brain Star Awards*
 - recipient of NSERC Graduate Scholarship (PGS D) and Ontario Graduate Scholarships
- Ken Valyear (Ph.D., Neuroscience, 2006-2010)
- Senior Lecturer (Associate Professor) at Bangor University, Wales
 - Winner of Western *Governor General's Gold Medal* for outstanding academic achievement by a graduate student
 - Winner of *Collip Medal Award* for outstanding PhD student graduating from a basic science department in the Schulich School of Medicine & Dentistry
 - recipient of prestigious Vanier Fellowship at the Doctoral level
 - recipient of Canada Graduate Scholarship at the Master's level
 - Winner of Nellie Farthing Research Fellowship in the Medical Sciences, Schulich School of Medicine and Dentistry
 - Winner of G. Keith Humphrey Memorial Award, Western
- Simona Monaco (Visiting Ph.D. student from the University of Bologna, 2005-2009; Postdoctoral fellow, 2010)
- Principal Investigator, Centre for Mind/Brain Sciences, University of Trento
- Charlie Pettypiece (M.Sc., Neuroscience, 2008-2010)
- Lawyer, Ontario Securities Commission
 - recipient of *Canada Graduate Scholarship* at the Master's level
- Derek Quinlan (M.Sc. and Ph.D., Neuroscience, 2001-2008)
- Equipment Manager, BrainsCAN, Western University
 - Assistant Professor, Department of Psychology, Huron College
- Yvonne Wong (Ph.D., Neuroscience, 2005-2008, co-supervised with Tutis Vilis)
- Founder and CEO, Canada Neurotech
 - instructor at Concordia University of Alberta

Full- or Half-time Staff (6)

- Rosanna Turner, Administrative Assistant (2017-2020)
- Tzu-Ching Chiang (2014-2015)
- Joey Paciocco (2012-2014)
- See Prior Trainees: Graduate Students (above)
- Paul Armstrong (2011-2012)
- Law School, Western University
- Lucia van Eimeren (2010-2011)

- PhD student, University of Exeter
- Teresa McAdam (2006-2009)
- See Prior Trainees: Graduate Students (above)
- Kenneth Valyear (Research Assistant, 2002-2005)
- See Prior Trainees: Graduate Students (above)

- Stacey Danckert (Research Assistant, 1999-2002)
- Finance Critic, Green Party of Ontario
 - Ph.D. in Psychology from the University of Waterloo
 - recipient of NSERC Graduate Scholarship (PGS D)

EXTERNAL SERVICE: CURRENT

Societies

- Board of Directors, *Vision Sciences Society* (2019-2023)
- Chair, Vision Sciences Society, Elsevier International Travel Awards Committee (2020-21)
- Member, Vision Sciences Society, Travel Awards Committee (2020-21)
- Member, Vision Sciences Society, Young Investigator Award Committee (2020-21)
- Member, Vision Sciences Society, Industry & Sponsorship Committee (2020-21)

Organizer, CREATE-IRTG Brain in Action Annual Retreat, Grand Bend, Ontario, June 18-21, 2019

Co-organizer (with Niko Troje and Laurie Wilcox, York University), Workshop on “How VR technologies can benefit cognitive neuroscience and vice versa”, inaugural event for the Lake Ontario Virtual Reality (LO-VR) consortium, Grand Bend, Ontario, June 17, 2019

Founding member, Lake Ontario Virtual Reality (LO-VR) consortium (to bring together researchers on VR from Western/BrainsCAN, York/VISTA, University of Waterloo, and other sites, along with industrial partners)

Editorial Boards

- Experimental Brain Research* (Co-editor, 2008-2022)

EXTERNAL SERVICE: PAST

Reviewing Editor (2012-2018), Acting Senior Editor (Oct. 2015-March 2016)
eLife

Director, Canadian Action and Perception Network (2016-2018)

Associate Editor (2008-2017), *Frontiers in Integrative Neuroscience*

North American Co-representative, Executive Committee, *International Neuropsychological Symposium* (2012-2017)

Member, Vision Sciences Society Young Investigator Award Committee (2013-2015)

Program Committee, *Canadian Association for Neuroscience* (2013)

Secretary (Secretary-Elect, Secretary, Past Secretary)
Organization for Human Brain Mapping (2008-2011)

Co-organizer (with Morris Moscovitch and Marlene Behrmann)
“Medial Temporal Lobe Contributions to Non-Memory Functions” session (9 speakers) at
International Neuropsychological Symposium, Collioure, France.

Organizing Committee Member
Canadian Physiological Society/Canadian Action and Perception Network joint conference
(February 2011)

Coordinator, Donald Hebb Student Awards
Canadian Society for Brain Behaviour and Cognitive Science annual meeting, London Ontario
(June 2008)

Committee Member

National Institutes of Health Neuroinformatics Terminology Workshop on Neurobehavior, New York City, April 10-11, 2008
 Co-organizer (with Patrizia Fattori), “From Eye to Hand: The Role of Vision in Grasping”, *Vision Sciences Society* pre-conference workshop, May 2005.

Reviews

Peer Review Committee Member

Canadian Institutes of Health Research (CIHR) Stage 1 Foundation Scheme (2016-present)
Natural Sciences and Engineering Research Council (NSERC) Research Tools and Instruments (2016-17)
Canadian Institutes of Health Research (CIHR) Behavioral Sciences B (June 2015; 1 grant by phone)
Canadian Institutes of Health Research (CIHR) Stage 2 Foundation Scheme 1st Live Pilot (April 2015)
Canadian Institutes of Health Research (CIHR) Behavioral Sciences C (May 2014, Dec. 2009)
Canadian Institutes of Health Research (CIHR) New Investigator awards (2006-2008)
Ontario Ministry of Research and Innovation (MRI) Early Researcher Awards (Nov. 2010)

Ad hoc reviewer of research grant applications:

Canada:

Canadian Institutes of Health Research (CIHR)
Natural Sciences and Engineering Research Council (NSERC)
CIHR-NSERC Collaborative Health Research Project (CHRP)
Canada Research Chairs (CRC)
Canadian Foundation for Innovation (CFI)
National Centres of Excellence (NCE)
MITACS (Mathematics of Information Technology and Complex Systems) Accelerate Program
Manitoba Health Research Council (MHRC)
Michael Smith Foundation for Health Research (MSFHR)
Ontario Mental Health Foundation (OMHF)

International:

National Science Foundation (U.S.)
European Research Council
Biotechnology and Biological Sciences Research Council (U.K.)
Economic and Social Research Council (U.K.)
Wellcome Trust (U.K.)
Medical Research Council (U.K.)
British Academy/Leverhulme Trust (U.K.)
Israel Science Foundation
Netherlands Organization for Scientific Research (Netherlands)
Romanian National Research Council (Romania)
University of Rome (Italy)

Ad hoc reviewer of submitted manuscripts

<i>Acta Psychologica</i>	<i>Cognition</i>
<i>Behavioral Brain Research</i>	<i>Current Biology</i>
<i>Biology Letters</i>	<i>eNeuro</i>
<i>Biomedical Imaging & Intervention</i>	<i>European Journal of Neuroscience</i>
<i>Brain and Cognition</i>	<i>Experimental Brain Research</i>
<i>Canadian Journal of Experimental Psychology</i>	<i>Frontiers in Human Neuroscience</i>
<i>Cerebral Cortex</i>	<i>Frontiers in Integrative Neuroscience</i>
<i>Cognitive, Affective and Behavioral Neuroscience</i>	<i>Frontiers in Movement Disorders</i>
	<i>Frontiers in Psychology</i>
	<i>Human Brain Mapping</i>

<i>Journal of Cognitive Neuroscience</i>	<i>Neuropsychologia</i>
<i>Journal of Experimental Psychology:</i> <i>General</i>	<i>PLOS Biology</i>
<i>Journal of Experimental Psychology:</i> <i>Human Perception & Performance</i>	<i>PLOS ONE</i>
<i>Journal of the Experimental Analysis of</i> <i>Behavior</i>	<i>Proceedings of the National Academy of</i> <i>Sciences</i>
<i>Journal of Neurophysiology</i>	<i>Proceedings of the Royal Society B</i>
<i>Journal of Neuroscience</i>	<i>Progress in Neurobiology</i>
<i>Journal of Neuroscience Methods</i>	<i>Psychiatry Research: Neuroimaging</i>
<i>Journal of Vision</i>	<i>Psychological Science</i>
<i>Learning and Motivation</i>	<i>Restorative Neurology and</i> <i>Neuroscience</i>
<i>Nature Communications</i>	<i>Science</i>
<i>Nature Neuroscience</i>	<i>Scientific Reports</i>
<i>NeuroImage</i>	<i>Spatial Vision</i>
<i>Neuron</i>	<i>Trends in Cognitive Sciences</i>
	<i>Vision Research</i>

Ad hoc reviewer of book chapters and book proposals:

Attention and Performance book series
Blackwell Publishers
Elsevier
MIT Press
Springer Publishers

Reviewer of tenure/promotion applications

27 candidates (3 in Canada; 24 international)

Reviewer of conference abstracts and student awards

Western Postdoctoral Fellowship Program (2018)
Canadian Action and Perception Network (CAPnet) abstracts (2015-present)
Vision Sciences Society abstracts (2006-2017)
Organization for Human Brain Mapping abstracts (2011)
 Donald Hebb Student Awards, *Canadian Society for Brain Behaviour and Cognitive Science*
 annual meeting, Kingston Ontario (June 2012)

Formal Mentorship

New Faculty Member Mentor, Brain and Mind Institute, 2018-present

Mentor, Faculty of Social Science, Western

Panelist, “Women in Science” Society of Neuroscience Graduate Students “I wish I knew”
 committee, 2019

Panelist, “NSERC RTI grant information panel”, Research Western Conference, May 2019

Faculty of Social Science Mentor Program, 2017-present.

Panelist, “Finding One’s Path in Graduate School” workshop, *Vision Sciences Society*, May 17,
 2015.

Internal Peer Reviewer for CIHR Operating Grant, *Schulich School of Medicine and Dentistry*,
 2014-15

Mentor, *Alberta Innovates* Postdoctoral Fellowship (Erin Mazerolle, University of Calgary), 2014-
 present

Mentor, *Schulich School of Medicine and Dentistry* Mentorship Program, 2010-2013

Mentor, *Society for Neuroscience* Mentoring Program, 2009-2012

UNIVERSITY ADMINISTRATIVE ROLES: CURRENT

Acting Director, BrainsCAN Human Cognitive and Sensorimotor Core, 2020

Member, Workload and Resource Planning Committee (Dept. of Psychology), 2019-2020

Member, Neuroscience Undergraduate Program Committee, 2018-present

Member, Psychology Department Social Committee, 2017-2020
 Western University Coordinator, *CREATE-IRTG “Brain in Action” International Training Program* between York (lead institution), Western & Queen’s and German universities in Marburg and Giessen, 2012-2021.

UNIVERSITY ADMINISTRATIVE ROLES: PAST

Member, Neuroscience Working Group (to propose the structure for a new Western Neuroscience Institute), Office of the Vice-President (Research), 2019-2020
 Member, Annual Performance Evaluation Committee (Dept. of Psychology), 2004-2006, 2007-2008, 2017-2019
 Member, BrainsCAN *Human Cognition and Sensorimotor Core Committee*, Sept. 2016 – Dec. 2018.
 Co-Director, CFREF BrainsCAN *Accelerator Internal Granting Program* (\$12.5M), Jan. 2017-Oct. 2018
 Member, Search Committee, Two CFREF BrainsCAN-funded positions in Computational Neuroscience, 2017-18
 Member, CFREF BrainsCAN *Research Management Committee*, 2017-2018
 Chair, Psychology Department *Ethics and Subject Pool Committee*, 2016-18
 Member, *Steering Committee, Brain and Mind Institute*, 2013-2015, 2016-2017
 Member, CFREF BrainsCAN *Human Core Committee*, 2016-2017
 Member, Selection committee for Trainee Exchange Program between Donders Institutes (Radboud University, Nijmegen Netherlands) and Brain and Mind Institute (Western), 2016-2017
 Member, *Promotion and Tenure Committee* (Department of Physiology and Pharmacology), 2014-2015
 Director, *NSERC CREATE Grant on Computational Approaches to Sensorimotor Transformations for the Control of Action* between Western (lead institution), York & Queen’s Universities, 2010-2015
 Representative for Western University, Council of Ontario Universities “Research Matters” campaign, 2013-2014
 Member, *Chair Selection Committee* (Department of Psychology), 2013-2014
 Member, *Executive Coordinating Committee* (Department of Psychology), 2012-2014
 Member, *Graduate Affairs Committee* (Department of Psychology), 2012-2014, 2004-2007
 Member, *Canada Research Chair in Primate Neuroscience Search Committee*, Department of Physiology and Pharmacology (2011-2013)
 Member, *Nominations Committee* (Department of Psychology), 2011-2013
 Member, *Promotion and Tenure Committee* (Dept. of Psychology), 2011
 Chair (2010-11), *Workload and Resource Planning Committee* (Dept. of Psychology); Member, 2009-2011
 Member, *Neuroscience Curriculum Review Committee* (Graduate Program in Neuroscience), 2010-2011
 Member, *Space Committee* (Department of Psychology), 2010-2012
 Member, *Appointments Committee* (Dept. of Psychology), 2006-2008
 Representative, *Faculty of Social Science Education Policy Committee* (Dept. of Psychology), 2007-2008
 Member, *Graduate Selection Committee*, Psychology, Feb. 2008
 Member, *4 T Magnet Operating Committee* (fMRI group), 2004-2007
 Interviewer, *Research Development & Services* (Western), 2006
 Reviewer, *Faculty of Graduate Studies Scholarships Committee for NSERC (Natural Sciences and Engineering Research Council) & OGSST (Ontario Graduate Scholarships in Science & Technology)* (Western), 2003-2006
 Member, *Executive Coordinating Committee* (Dept. of Psychology), 2003-2005
 Member, *Workload and Resource Planning Committee* (Dept. of Psychology), 2002-2004
 Member, *Nominations Committee* (Dept. of Psychology), 2002-2004
 Representative, *Faculty of Engineering meetings* (Faculty of Social Science), 2001-2003
 Coordinator, *United Way campaign* (Dept. of Psychology), 2001-2002

MEMBERSHIPS

Elected Member (2005-present): *International Neuropsychological Symposium*

Selected Member (2018-present): Faculty Affiliate, *Vector Institute for Artificial Intelligence*

Memberships: *Vision Sciences Society*; *Society for Neuroscience*; *Canadian Association for Neuroscience*; *Society for Near-Infrared Spectroscopy*

YOUTH OUTREACH, MEDIA INTERVIEWS, AND COMMUNITY SERVICE

For links, see <http://www.culhamlab.com/media-coverage>

Comments cited in article “Automation will mean the end of an unusual, but effective, safety practice on the TTC’s Yonge line”, *Globe and Mail*, February 2020; radio interview on Global News Radio 640 Toronto

Media interview about color perception, *Fanshawe College XFM News*, March 2019

Media coverage about a patient described in Arcaro... & Culham (2018, *Neuropsychologia*) for *Scientific American*, *National Post*, *Global News*, *Daily Mail* (U.K.), *The Times* (U.K.), *Newsweek*, *Science Daily*, *London Free Press*, *CTV News*, *CBC Afternoon Drive*, *Fox News*, *Men's Health* (Australia), *Medical News Today*, *Global News Radio 980 CFPL* (London, Ontario) and numerous other international sources, June 2018

Western News feature on van den Heiligenberg... & Makin (2018, *Brain*), “Amputee brain rewires to embrace artificial limb”, March 2018

Speaker, “What IS good graduate writing?”, *GradWRITE Graduate Writing Workshop*, Western University, March 2017, March 2018

Interview, “Peer Review: Consultative review is worth the wait”, *eLife*, September 2017
<https://elifesciences.org/articles/32012>

“I have not seen my daughter smile since I went blind: Mum’s rare condition lets her ‘see.’”
Newspaper Feature, *Sunday Post* (Scotland), August 2017

Radio Guest, *Dermot and Dave Show* (Ireland’s most listened to mid-morning music and chat show), Today FM, Ireland, May 2017

Media coverage on Hahamy...& Makin, 2017 from *The Independent* (U.K.), *The Daily Mail* (U.K.), *The Sunday Times* (U.K.), *Seeker*, *Technology Networks*, and *Science Daily*, April 2017

Radio Guest, “The Digital Human: Blindsight”, *British Broadcasting Corporation (BBC) Radio 4* (U. K.), April 2017

Panelist, “Academic job searches”, *Postdoctoral Research Forum*, Western University, May 2017.

Media coverage on Snow et al., 2015 in *South Asian Daily*, October 2015.

Public Lecture, “How the mind can control machines?” *London Public Library*, London ON, April 2015.

Public Lecture, “How can the brain control machines?” *Toronto Mini Maker Faire*, Toronto ON, November 2014.

Organizer of Discussion Panel, “Publishing 2.0: How can we change the publishing system in researchers' best interests?” *Canadian Association for Neuroscience Annual Meeting*, Montreal, Quebec, May 2014.

Interview, “The blind woman who sees the rain, but not her daughter’s smile”, *National Public Radio* (U.S.), February 2014. <http://www.npr.org/blogs/health/2014/05/26/314621545/the-blind-woman-who-sees-rain-but-not-her-daughters-smile>

Online discussion, “How can researchers change science publishing and research assessment?”
eLife-sponsored Google Hangout on Air, February 2014.

Interview, “Does new driving technology make us worse drivers?” *Global News*, February 2014.

Public Lecture, “How Does the Brain Control the Body”, *Research Matters What Matters Now*, Children’s Museum, London ON, November 2013.

- Interview, “The Treachery of Images,” *CBC Radio1 Spark*, October 2013.
<http://www.cbc.ca/spark/episodes/2013/10/25/229-link-rot-image-vs-reality-payphone-resurgence-virtual-economies-god-and-tech/>
- Speaker, “How many brains do you have?” *Treehouse Talks*, Toronto ON, February 2012.
<http://vimeo.com/37047211>
- Organizer, *The Art and Science of Brain Imaging*, one-day workshop to train 24 artists about neuroimaging, in collaboration with Subtle Technologies and with funding from the *Canada Council for the Arts*, October 2011.
- Discussant, *Quirks & Quarks* (Canadian Broadcasting Corporation science radio show), 35th anniversary program, November 2010.
<http://www.cbc.ca/quirks/episode/2010/11/13/november-13-2010/>
- Presenter, Western Researchers’ Spotlight, Western Staff and Leaders Conference, February 2010.
- Youth Outreach Coordinator, Centre for Brain and Mind, 2007-2010.
- Discussant “Who Am I?”, Science in the Pub, Quantum to Cosmos (Q2C) Festival, *Perimeter Institute for Theoretical Physics*, Waterloo, Ontario, October 2009.
- Presenter, Solving the Puzzle of Brain and Mind, Western Neuroscience Program Graduate Recruitment event, October 2009.
- Hands-on workshop on “Vision and Brain” for *Creative Encounters*, July 2007.
- Commentator for Western Media Relations on Nintendo *Brain Age* gaming system (featured in *London Free Press*, *Canadian Living*, *A-Channel News*), January 2007.
- Phone interview for web feature, “Your eyes can deceive you, don’t trust them”, *New Scientist* web feature, November 2006.
- Hands-on workshop on “Vision and Brain” for *Canadian Association for Girls in Science*, November 2005.
- Faculty of Social Science *Fall Preview Day* mini-lecture to prospective Western students and their parents, “Cognitive Neuroscience: Mapping the Human Brain,” November 2004 and November 2005.
- Harvard Alumni Association (Toronto division) college admissions interviewer for London area, 2002-2008.
- Respondent for *CBC Radio*, Windsor morning show, “Why is the sound of fingernails on a blackboard so annoying?” August 2004
- Phone interview for newspaper article on brain imaging, “Universities Vie for Tool that Shows Brains at Work”, *Boston Globe*, February 2004

IMPACT OF PAPERS

Google Scholar (<http://scholar.google.ca/citations?user=PnssgPwAAAAJ&hl=en>)

- Citation Count: 10,000+ (June 2020)
- h-index: 50 (50 papers with 50+ citations)

ISI Web of Science (<http://www.researcherid.com/rid/A-9863-2013>)

- Citation Count: 5,600+ (June 2020)
- h-index: 37 (37 papers with 37+ citations)

Relative Citation Ratio (<https://icite.od.nih.gov/>)

- Average RCR: 2.6 (indicates work is cited 2.6X more often than average for the field of research, average corresponds to top 20%)
- range: 0-13 (February 2020)
- Weighted RCR: 219

ORCID Author Identifier: 0000-0003-0754-299

PEER-REVIEWED JOURNAL ARTICLES (92)

Publication

Culham Lab trainees (at the time of project) are indicated with a solid underline; Other trainees are indicated with a dotted underline.

Role

- 12 *IA = First Author (conducted experiment; wrote manuscript)*
 35 *PI = Principal Investigator (supervised research, extensively edited manuscript, funded project)*
 4 *Co-A = Co-Author (shared design and analysis equally; co-wrote manuscript)*
 20 *Co-I = Co-Investigator (co-supervised research, edited manuscript)*
 21 *C = Collaborator (advised on experimental design and/or analysis, edited manuscript)*

Cit. = Citations from Google Scholar (March 2019)

<http://scholar.google.ca/citations?user=PnssgPwAAAAJ&hl=en>

RCR = Relative Citation Rate (indicates how often work is cited relative to the average for the field of research; September 2018)

<https://icite.od.nih.gov/>

I have not included Journal Impact Factors because I consider them a better metric for journals than individual publications.

Publication	Role	Cit.	RCR
Witt, J. K., Kemmerer, D., Linkenauger, S. A., & Culham, J. C. (in press). Reanalysis suggests evidence for motor simulation in naming tools is limited: A commentary on Witt, Kemmerer, Linkenauger, and Culham (2010)". <i>Psychological Science</i> , 21, 1215-1219. [Commentary] https://journals.sagepub.com/doi/10.1177/0956797620940555	C		
Monaco, S., Malfatti, G., Culham, J. C., Cattaneo, L., & Turella, L. (2020). Decoding motor imagery and action planning in the early visual cortex: overlapping but distinct neural mechanisms. <i>NeuroImage</i> .	C		
<u>Sensoy</u> , O., <u>Culham</u> , J. C., & Schwarzer, G. (In press). Do infants show knowledge of the familiar size of everyday objects? <i>Journal of Experimental Child Psychology</i> .	C		
<u>Cuevas</u> , P., He, Y., Steines, M., Nagels, A., <u>Culham</u> , J., & Straube, B. (2019). The facilitative effect of gestures on the neural processing of semantic complexity in a continuous narrative. <i>NeuroImage</i> , 195:38-47. doi: 10.1016/j.neuroimage.2019.03.054	C	1	
<u>Gallivan</u> , J. P., Chapman, C. S., Gale, D. J., Flanagan, J. R. & <u>Culham</u> , J. C. (2019). Selective modulation of early visual cortical activity by movement intention. <i>Cerebral Cortex</i> , 29(11), 4662-4678. https://doi.org/10.1093/cercor/bhy345	Co-I	5	
<u>Freud</u> , E., <u>Culham</u> , J. C., Namdar, G., & Behrmann, M. (2019). Object complexity modulates the association between action and perception in childhood. <i>Journal of Experimental Child Psychology</i> . 179, 56-72. doi: 10.1016/j.jecp.2018.11.004	Co-I	3	
Vesia, M., <u>Culham</u> , J. C., Jegatheeswaran, G., Isayama, R., Le, A., Davare, M., & Chen, R. (2018). Functional interaction between human dorsal premotor cortex and ipsilateral primary motor cortex for grasp plans: a dual-site TMS study. <i>NeuroReport</i> , 29(16), 1355-1359.	C	4	0.7

- Arcaro, M. J., Thaler, L., Quinlan, D. J., Monaco, S., Khan, S., Valyear, K. F., Goebel, R., Dutton, G. N., Goodale, M. A., Kastner, S., & **Culham**, J. C. (2018). Psychophysical and neuroimaging responses to moving stimuli in a patient with the Riddoch phenomenon due to bilateral visual cortex lesions. *Neuropsychologia*, 128, 150-165. doi: 10.1016/j.neuropsychologia.2018.05.008
- van den Heiligenberg, F. M. Z., Orlov, T., Macdonald, S. N., Duff, E. P., Henderson Slater, D., Beckmann, C., Johansen-Berg, H., **Culham**, J. C., & Makin, T. R. (2018). Artificial limb representation in amputees. *Brain*, 141, 1422-1433.
- Cavina-Pratesi, C., Connolly, J. D., Monaco, S., Figley, T. D., Milner, A. D., Schenk, T., & **Culham**, J. C. (2018). Human neuroimaging reveals the subcomponents of reaching and pointing actions. *Cortex*, 98, 128-148.
- Freud, E., Macdonald, S. N., Chen, J., Quinlan, D. J., Goodale, M. A., & **Culham**, J. C. (2018). Getting a grip on reality: Grasping movements directed to real objects and images rely on dissociable neural representations. *Cortex*, 98, 34-48.
- Chen, J., Snow, J. C., **Culham**, J. C., & Goodale, M. A. (2018). What role does 'elongation' play in 'tool-specific' activation and connectivity in the dorsal and ventral visual streams? *Cerebral Cortex*, 28(4), 1117-1131.
- Monaco, S., Gallivan, J. P., Figley, T. D., Singhal, A., & **Culham**, J. C. (2017). Recruitment of foveal retinotopic cortex during haptic exploration of shapes and actions in the dark. *Journal of Neuroscience*, 37(48):11572-11591.
- Freud, E., **Culham**, J. C., Plaut, D. C., & Behrmann, M. (2017). The large-scale organization of shape processing in the ventral and dorsal pathways. *eLife*, 6, e27576.
- Vesia, M., Barnett-Cowan, M., Elahi, B., Neva, J., Davare, M., Staines, W., **Culham**, J., & Chen, R. (2017). Human dorsomedial parieto-motor circuit specifies grasp during the planning of goal-directed hand actions. *Cortex*, 92, 175-186.
- Hahamy, A., Macdonald, S. N., van den Heiligenberg, F., Kieliba, P., Malach, R., Emir, U., Brugger, P., Johansen-Berg, H., **Culham**, J. C., & Makin, T. R. (2017). Representation of multiple body parts in missing hand territory of congenital one-handers. *Current Biology*, 27, 1350-1355.
- van den Heiligenberg, F. M. Z., Yeung, N., Brugger, P., **Culham**, J. C. & Makin, T. R. (2017). Adaptable categorization of hands and tools in prosthesis users. *Psychological Science*, 28(3), 395-398.
- Fabbri, S., Stubbs, K. M., Cusack, R. & **Culham**, J. C. (2016). Disentangling representations of object and grasp properties in the human brain. *Journal of Neuroscience*, 36(29), 7648-7662.
- Gerhard, T. M., **Culham**, J. C. & Schwarzer, G. (2016). Distinct visual processing of real objects and pictures of those objects in 7- to 9-month-old infants. *Frontiers in Developmental Psychology*, 7, 827. [Gerhard was a co-supervised trainee for CREATE-IRTG international training grant]
- Squires, S. D., Macdonald, S. N., **Culham**, J. C., & Snow, J. C. (2016). Priming tool actions: Are real objects more effective primes than pictures? *Experimental Brain Research*, 234(4), 963-976.
- Thaler, L., Paciocco, J. Daley, M., Lesniak, G. D., Purcell, D. W., Fraser, J. A., Dutton, G. N., Rossit, S., Goodale, M. A., & **Culham**, J. C. (2016). A selective impairment of perception of sound motion direction in peripheral space: A case study. *Neuropsychologia*, 80, 79-89.

				20
<u>Stöttinger, E., Filipowicz, A., Valadao, D., Culham, J., Goodale, M., Anderson, B., & Danckert, J. (2015). A cortical network that marks the moment when conscious representations are updated. <i>Neuropsychologia</i>, 79, 113-122.</u>	C	9	0.2	
<u>Quinlan, D. J., & Culham, J. C. (2015). Direct comparisons of hand and mouth kinematics during grasping, feeding and fork-feeding actions. <i>Frontiers in Human Neuroscience</i>, 9: 580.</u>	PI	10	0.4	
<u>Snow, J. C., Goodale, M. A., & Culham, J. C. (2015). Preserved haptic shape processing after bilateral LOC lesions. <i>Journal of Neuroscience</i>, 35(40), 13745-13760.</u>	PI	21	1.0	
<u>Macdonald, S. N. & Culham, J. C. (2015). Do human brain areas involved in visuomotor actions show a preference for real tools over visually similar non-tools? <i>Neuropsychologia</i>, 77, 35-41.</u>	PI	24	1.1	
<u>Barnett-Cowan, M., Snow, J. C., & Culham, J. C. (2015). Contribution of bodily and gravitational orientation cues to face and letter recognition. <i>Multisensory Research</i>, 28(5-6), 427-442.</u>	PI	2	0.2	
<u>Hutchison, R. M., Culham, J. C., Flanagan, J. R., Everling, S., & Gallivan, J. P. (2015). Functional subdivisions of medial parieto-occipital cortex in humans and nonhuman primates using resting-state fMRI. <i>NeuroImage</i>, 116, 10-29.</u>	C	33	1.3	
<u>Gallivan, J. P., & Culham, J. C. (2015). Neural coding within human brain areas involved in actions. <i>Current Opinion in Neurobiology</i>, 33, 141-149.</u>	Co-A	117	6.1	
<u>Monaco, S., Sedda, A., Cavina-Pratesi, C., & Culham, J. C. (2015). Neural correlates of object size and object location during grasping actions. <i>European Journal of Neuroscience</i>, 41(4), 454-465.</u>	PI	36	1.6	
<u>Hutchison, R. M., Culham, J. C., Everling, S., Flanagan, J. R., & Gallivan, J. P. (2014). Distinct and distributed functional connectivity patterns across cortex reflect the domain-specific constraints of object, face, scene, body, and tool category-selective modules in the ventral visual pathway. <i>NeuroImage</i>.</u>	C	65	2.7	
<u>Chapman, C. S., Gallivan, J. P., Wood, D. K., Milne, J. L., Ansari, D., Culham, J. C., & Goodale, M. A. (2014). Counting on the motor system: Rapid action planning reveals the format-dependent extraction of numerical quantity. <i>Journal of Vision</i>, 14(3), 30.</u>	Co-I	17	0.6	
<u>Rossit, S. McAdam, T., McLean, D. A., Goodale, M. A., & Culham, J. C. (2013). fMRI reveals a lower visual field preference for hand actions in human superior-parietal occipital cortex (SPOC) and precuneus. <i>Cortex</i>, 49, 2525-2541. http://dx.doi.org/10.1016/j.cortex.2012.12.014</u>	PI	56	2.4	
<u>Gallivan, J. P., Chapman, C. S., McLean, D. A., Flanagan, J. R., & Culham, J. C. (2013). Activity patterns in category-selective occipitotemporal cortex predict upcoming motor actions. <i>European Journal of Neuroscience</i>, 38(3), 2408-2424. http://onlinelibrary.wiley.com/doi/10.1111/ejn.12215/abstract</u>	PI	54	1.7	
<u>Singhal, A., Monaco, S., Kaufman, L. D., & Culham, J. C. (2013). Human fMRI reveals that delayed action re-recruits visual perception. <i>PLOS (Public Library of Science) ONE</i>, 8(9), e73629. doi:10.1371/journal.pone.0073629</u>	PI	63	2.3	
<u>Milne, J.L., Chapman, C.S., Gallivan, J.P., Wood, D.K., Culham, J.C., & Goodale, M.A. (2013). Connecting the Dots: Object connectedness deceives perception but not movement. <i>Psychological Science</i>, 24(8), 1456-1465. DOI: 10.1177/0956797612473485</u>	C	20	0.5	

- Gallivan, J. P., McLean, D. A., Valyear, K. F., & Culham, J. C. (2013). Decoding the neural mechanisms of human tool use. *eLife*, 2, e00424. <http://dx.doi.org/10.7554/eLife.00425> PI 124 4.3
- Gallivan, J. P., McLean, D. A., Flanagan, J. R., & Culham, J. C. (2013). Where one hand meets the other: Limb-specific and goal-dependent movement plans decoded from preparatory signals in single human parieto-frontal brain areas. *Journal of Neuroscience*, 33(5), 1991-2008. PI 107 3.9
- Hutchison, R. M., Gallivan, J. P., Culham, J. C., Gati, J. S., Menon, R. S., & Everling, S. (2012). Functional connectivity of the frontal eye fields in humans and macaque monkeys investigated with resting-state fMRI. *Journal of Neurophysiology*, 107(9), 2463-2474. C 81 2.5
- Valyear, K. F., Gallivan, J. P., McLean, D. A. & Culham, J. C. (2012). fMRI repetition suppression for familiar but not arbitrary actions with tools. *Journal of Neuroscience*, 32(12), 4247-4259. PI 67 2.1
- Secen, J., Culham, J., Ho, C., & Giaschi, D. (2011). Neural correlates of the multiple-object tracking deficit in amblyopia. *Vision Research*, 51(23-24), 2517-2527. C 36 1.2
- Gallivan, J. P., McLean, D. A., Smith, F. W., & Culham, J. C. (2011). Decoding effector-dependent and effector-independent movement intentions from human parieto-frontal brain activity. *Journal of Neuroscience*, 31(47), 17149-17168. PI 117 3.4
- Gallivan, J. P., McLean, D. A., Valyear, K. F., Pettypiece, C. E., & Culham, J. C. (2011). Decoding action intentions from preparatory activity in human parieto-frontal cortex. *Journal of Neuroscience*, 31(26), 9599-9610. PI 186 5.5
- Gallivan, J. P., McLean, D. A., & Culham, J. C. (2011). Neuroimaging reveals enhanced activation in a reach-selective brain area for objects located within participants' typical hand workspaces. *Neuropsychologia*, 49, 3710-3721. PI 45 1.2
- Monaco, S., Cavina-Pratesi, C., Sedda, A., Fattori, P., Galletti, C., & Culham, J. C. (2011). Functional magnetic resonance adaptation (fMRA) reveals the involvement of the dorsomedial stream in hand orientation for grasping. *Journal of Neurophysiology*, 106(5), 2248-2263. PI 65 2.1
- Snow, J. C., Pettypiece, C., McAdam, T. D., McLean, A. D., Stroman, P. W., Goodale, M. A., & Culham, J. C. (2011). Bringing the real world into the fMRI scanner: Repetition effects for pictures versus real objects. *Scientific Reports*, 1, Article number 130. PI 115 2.5
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James, T.W., Culham, J., Humphrey, G. K., Milner, A. D., & Goodale, M. A. (2003). Ventral occipital lesions impair object recognition but not object-directed grasping: an fMRI study. <i>Brain</i> , 126, 2463-2475.	Co-A	583	7.9
Culham, J. C. & Kline, D. W. (2002). The age deficit on photopic counterphase flicker: contrast, spatial frequency, and luminance effects. <i>Canadian Journal of Experimental Psychology</i> , 56(3), 177-186.	1A	10	0.3
Culham, J.C., Cavanagh, P., & Kanwisher, N.G. (2001). Attention response functions: characterizing brain areas using fMRI activation during parametric variations of attentional load. <i>Neuron</i> , 32(4), 737-745.	1A	318	5.3
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<u>Dukelow, S. P., DeSouza, J. F. X., Culham, J. C., van den Berg, A. V., Menon, R. S., & Vilis, T. (2001).</u> Distinguishing subregions of the human MT+ complex using visual fields and pursuit eye movements. <i>Journal of Neurophysiology</i> , 86(4), 1991-2000.	C	297	4.8
Culham, J.C., He, S., Dukelow, S., & Verstraten, F.A.J. (2001). Visual motion and the human brain: what has neuroimaging told us? <i>Acta Psychologica</i> , 107, 69-94.	1A	117	1.9
Culham, J. C. & Kanwisher, N. G. (2001). Neuroimaging of cognitive functions in human parietal cortex. <i>Current Opinion in Neurobiology</i> , 11(2), 157-163.	1A	894	13.1
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Culham, J. C., & Cavanagh, P. (1996). Motion capture and visual attention: A reply to Ramachandran. <i>Vision Research</i> , 36(1), 79-80.	1A	1	0.2
Culham, J. C., & Cavanagh, P. (1994). Motion capture of luminance stimuli by equiluminous color gratings and by attentive tracking. <i>Vision Research</i> , 34(20), 2701-2706.	1A	41	

BOOK CHAPTERS, ENCYCLOPEDIA ENTRIES, AND BOOK REVIEWS (11)

Publication	Role	Cit.
<u>Karl, J. M. & Culham, J. C. (2016).</u> Beyond Roland: How does the human brain produce complex motor behaviours? Insights from neuroimaging. Book chapter in B. E. Kolb & I. Q. Whishaw (Eds.), <i>Brain and Behaviour: Revisiting the Classic Studies</i> . Sage.	Co-A	

- Culham, J. C.** (2015). Visuomotor integration. Entry in *Brain Mapping: An Encyclopedic Reference*. (Ed. A. C. Toga), 2, 469-473. Academic Press: Elsevier. 1A
- Culham, J. C.** (2015). Cortical areas engaged in movement. Entry in *International Encyclopedia of Social and Behavioral Sciences, 2nd ed.* (Ed. J. D. Wright). Elsevier. 1A
- Daley, M. & Culham, J. C.** (2011). Book review of *Networks of the Brain* by Olaf Sporns. *Canadian Psychology*. Co-A
- Culham, J. C.** (2009). Reaching and grasping. Entry in *Encyclopedia of Perception* (Ed. Bruce Goldstein). Thousand Oaks, CA: Sage. 1A
- Culham, J. C. & Valyear, K. F.** (2009). Tool use. Entry in *Encyclopedia of Perception* (Ed. Bruce Goldstein). Thousand Oaks, CA: Sage. Co-A
- Culham, J. C., Gallivan, J., Cavina-Pratesi, C., & Quinlan, D. J.** (2008). fMRI investigations of reaching and ego space in human superior parieto-occipital cortex. In R. L. Klatzky, M. Behrmann, & B. MacWhinney (Eds.), *Embodiment, Ego-space, and Action*. New York: Psychology Press (pp. 247-274). 1A 49
- Culham, J. C.** (2006). Functional neuroimaging: Experimental design and analysis. Book chapter in R. Cabeza and A. Kingstone (Eds.), *Handbook of Functional Neuroimaging of Cognition (2nd ed.)*. Cambridge MA: MIT Press (pp. 53-82). 1A 65
- Culham, J. C.** (2004). Human brain imaging reveals a parietal area specialized for grasping. Chapter in N. Kanwisher and J. Duncan (Eds.), *Attention and Performance XX: Functional Neuroimaging of Human Cognition*. Oxford: Oxford University Press (pp. 417-438). 1A 119
- Culham, J.C.** (2002). Parietal cortex. Entry in L. Nadel (Editor-in-Chief), *Encyclopedia of Cognitive Science* (Vol. 3, pp. 451-457). Houndmills U.K.: Macmillan 1A 7
- Culham, J. C., Nishida, S., Ledgeway, T., Cavanagh, P., von Grünau, M. W., Kwas, M., Alais, D., & Raymond, J. E.** (1998). Higher-order effects. Chapter in G. Mather, F. Verstraten & S. Anstis (Eds.), *The Motion After-effect: A Modern Prospective*. Cambridge, MA: MIT Press (pp. 84-124). 1A 28

UNDER REVISION (2)

Snow, J. C. & **Culham, J. C.** The treachery of images: How realism influences brain and behavior. *Trends in Cognitive Sciences*. Invited review, revisions requested.

Sivakumar, P., Quinlan, D. J., Stubbs, K. M., & Culham, J. C. Grasping performance depends upon the richness of hand feedback. *Experimental Brain Research*. Revisions requested.

BOOK IN PREPARATION (1)

Culham, J. C. & Goebel, R. *Working with fMRI*. Psychology Press (Taylor & Francis), East Sussex, U. K. Contract accepted 2018-09-18.

HIGHLIGHTED WORK (SEE ALSO MEDIA COVERAGE)

Arcaro et al. (2018), *Neuropsychologia*

- Received considerable international media coverage

Gallivan et al. (2013), *eLife*

- Subject of an Insight article: Mahon, B. Z. (2013). Watching the brain in action, *eLife*, 2, e00866.

Snow et al. (2011), *Scientific Reports*

- Commendation by *Discovery Magazine* NeuroSkeptic.

Gallivan et al. (2011b), *Journal of Neuroscience* (“Decoding effector-dependent...”)

- Gallivan received a *CIHR Brain Star Award* for this work

- Gallivan et al. (2011a), *Journal of Neuroscience* (“Decoding action intentions...”)
- Gallivan received a *CIHR Brain Star Award* for this work
 - “Recommended” on *Faculty of 1000*, <http://f1000.com/13356062>
 - Subject of Journal Club Commentary: Vesia, M. & Davare, M. (2011). Decoding action intentions in parietofrontal circuits. *Journal of Neuroscience*, 31(46), 16491-16493.
 - Received considerable international media coverage
- Gallivan et al. (2009), *Journal of Neuroscience*
- Gallivan received a *CIHR Brain Star Award* for this work
- Steeves et al. (2005), *Neuropsychologia*
- “Must Read” on *Faculty of 1000*, <http://www.facultyof1000.com/article/16125741>
- Culham et al., (2001), *Neuron*
- “Recommended” on *Faculty of 1000*, <http://www.facultyof1000.com/article/11719212>
- Culham et al. (2000), *Neuron*
- Subject of Preview piece: Kastner, S. (2000). Attention and motion aftereffects: Just keep on tracking! *Neuron*, 28, 314.
- Culham et al. (1999), *Journal of Neurophysiology*
- Subject of News & Views piece: Moore, C. & Engel, S. A. (1999). Visual perception: Mind and brain see eye to eye. *Current Biology*, R74-76.

COLLABORATIONS

Groups

Canada-Germany CREATE-IRTG “The Brain and Action” training program with Philipps-University Marburg and Justus-Liebig-University Giessen, Germany, especially Drs. Gudrun Schwarzer (Giessen), Anna Schubö (Marburg), Benjamin Straube (Marburg) and Tilo Kircher (Marburg)

Ongoing

Dr. Rainer Goebel, Maastricht University, Netherlands
 Dr. Ella Striem-Amit, Georgetown University, Washington DC
 Dr. Laurie Wilcox, York University, Toronto
 Drs. Luca Turella and Simona Monaco, University of Trento, Italy
 Drs. Valentina Parma, Carol Coricelli, and Raffaella Rumiati, SISSA, Trieste Italy

Past

Dr. Marco Davare, KU Leuven, Belgium
 Dr. Marlene Behrmann, Carnegie-Mellon University, Pittsburgh, PA
 Dr. Michael Vesia, University of Toronto, Canada
 Dr. Tamar Makin, Oxford University, Oxford UK
 Dr. Antonio Rangel, California Institute of Technology (Caltech), Pasadena, CA
 Drs. Michael Arcaro and Sabine Kastner, Princeton University, Princeton, NJ
 Drs. Patrizia Fattori & Claudio Galletti, University of Bologna, Italy
 Dr. James Danckert, University of Waterloo, Canada
 Dr. David Milner, Durham University, Durham, UK

COMMENTARIES (15)

- Culham, J. C.** (2016). The left hand doesn't know what the right hand is doing... or does it?! *Cell Reports*, 17, 2809-2810. (Preview: Ossmy & Mukamel, 2016, *Cell Reports*).
- Culham, J. C.** (2012). Motion perception: New ideas on how drivers perceive speed emerge from the fog. *eLife*, 1, e00281. (Insight: Pretto et al., 2012, *eLife*). DOI: 10.7554/eLife.00281
- Culham, J. C.** (2005). Look before you reach! *Neuron*, 48, 713-714. (Preview: Prado et al., 2005, *Neuron*).
- Culham, J. C.** (2005). Turn the other cheek: Viewpoint aftereffects for faces and objects. *Neuron*, 45, 644-645. (Preview: Fang & He, 2005, *Neuron*).
- Culham, J. C.** (2003). Attention-grabbing motion in the human brain. *Neuron*, 40, 451-452. (Preview: Claeys et al., 2003, *Neuron*).

- Culham, J. C.** (2002). Dissociations in parietal "association" cortex. *Neuron*, 33, 318-320. (Preview: Simon et al., 2002, *Neuron*).
- Culham, J. C.** (2002). Brain activity around the clock. *Trends in Cognitive Sciences*, 6, 114. (Journal Club: Sereno et al., 2001, *Science*).
- Culham, J. C.** (2001). How neurons become BOLD. *Trends in Cognitive Sciences*, 5, 416. (Journal Club: Logothetis et al., 2001, *Nature*).
- Culham, J. C.** (2001). The brain as film director. *Trends in Cognitive Sciences*, 5, 376-377. (Journal Club: Zacks et al., 2001, *Nature Neuroscience*).
- Culham, J. C.** (2001). There's Waldo! *Trends in Cognitive Sciences*, 5, 231. (Journal Club: Sheinberg & Logothetis, 2001, *Journal of Neuroscience*).
- Culham, J. C.** (2000). Just how general is 'g'? *Trends in Cognitive Sciences*, 4, 328. (Monitor: Duncan et al., 2000, *Science*).
- Culham, J. C.** (2000). Activation from neuron to brain. *Trends in Cognitive Sciences*, 4, 5. (Monitor: Scannell & Young, 1999, *Proceedings of the Royal Society London B*).
- Culham, J. C.** (1999). Discordant views on the Mozart effect. *Trends in Cognitive Sciences*, 3, 409. (Monitor: Steele et al., 1999, *Nature*; Chabris, 1999, *Nature*).
- Culham, J. C.** (1999). What you see is what you get activated. *Trends in Cognitive Sciences*, 3, 126. (Monitor: Tong et al., 1998, *Neuron*).
- Culham, J. C.** (1998). Timing in the visual hierarchy. *Trends in Cognitive Sciences*, 2, 473. (Monitor: Schmolesky et al., 1988, *Journal of Neurophysiology*).

INVITED TALKS AND *TEACHING WORKSHOPS (138)

- Culham, J. C.** (October 2020). Immersive Neuroscience: A vision for bringing cognitive neuroscience closer to the real world. York University Centre for Vision Research.
- Culham, J. C.** (July 2020). "The treachery of images": How the realness of objects affects brain activation and behavior. *International Conference on Machine Learning*, Virtual conference.
- Culham, J. C.** (November 2019). Immersive Neuroscience: A vision for bringing cognitive neuroscience closer to the real world. Canada Research Chair nomination vision talk, Faculty of Social Science, *University of Western Ontario*, London, Ontario.
- Culham, J. C.** (October 2019). The treachery of images: How the realness of objects affects brain activation and behavior. *Purdue University*, West Lafayette, Indiana.
- Culham, J. C.** (August 2019). "You can't pound a nail with a photo of a hammer": How real objects differ from images. *Department of Psychology*, University of Toronto, Toronto, Ontario.
- Culham, J. C.** (May 2019). "You can't pound a nail with a photo of a hammer": How real objects differ from images. Keynote talk at *Canadian Action and Perception Network Satellite Symposium*. Toronto, Ontario.
- Culham, J. C.** (February 2019). The treachery of images: How the realness of objects affects brain activation and behavior. Keynote talk at *Canadian Spring Conference on Behaviour and Brain*. Fernie, British Columbia.
- Culham, J. C.** (October 2018). The treachery of images: Why the brain responds differently to real objects than photos. *Department of Psychology*, Princeton University, Princeton, New Jersey.
- Culham, J. C.** (August 2018). Differences between reality and common proxies raise questions about which aspects of virtual environments matter in cognitive neuroscience. Multisensory Brain and Cognition Lab, *University of Waterloo*, Waterloo, Ontario.
- Culham, J. C.** (July 2018). The treachery of images: Why the brain responds differently to real objects than photos. *Gordon Research Conference on the Neurobiology of Cognition*, Newry, Maine.
- Culham, J. C.** (June 2018). The blind woman who could see rain: Residual motion processing in a patient with bilateral occipital lesions. *Sensory Plasticity, Adaptation and Development (SPADe) Workshop*, Pisa, Italy.
- Culham, J. C.** (June 2018) "The Treachery of Images": How the realness of objects and actions affects brain activation and behavior. *IMT School for Advanced Studies*, Lucca, Italy
- Culham, J. C.** (May 2018). Differences between reality and common proxies raise questions about which aspects of virtual environments matter in cognitive neuroscience, Center for Visual Science Symposium on Frontiers in Virtual Reality. *University of Rochester*, New York.
- Culham, J. C.** (May 2018). "The treachery of images": How the realness of objects and actions affects brain activation and behavior. Maastricht Brain Imaging Center, *Maastricht University*, Maastricht, Netherlands.
- Culham, J. C.** (February 2018). "The treachery of images": Why brains, babies and adults react differently to real objects than photos. Lake Ontario Visionary Establishment (LOVE), Niagara Falls, Ontario.
- Culham, J. C.** (November 2017). "The treachery of images": Why brains, babies, and adults react differently to real objects than photos, Department of Psychology, *University of Arizona*, Tucson, Arizona.
- Culham, J. C.** (August 2017). Two streams or a delta? Neuroimaging contributions to interpreting the two visual streams hypothesis. Invited participation in Controversy Symposium on "The two visual streams hypothesis: A critical appraisal and update", *European Conference on Visual Perception*, Berlin, Germany. [Abstract published in *Perception*]
- Culham, J. C.** (August 2017). The influence of solo and joint action goals on brain activation patterns and kinematics. Center for Cognitive Neuroscience Workshop on Action understanding: From kinematics to mind. *Dartmouth College*, Hanover, New Hampshire.
- Culham, J. C.** (May 2017). Neuroimaging reveals the human neural representations for visually guided grasping of real objects and pictures. *Vision Sciences Society*, St. Pete Beach, Florida.

- Culham, J. C.** (April 2017). How does the human brain process hand and tool actions? Keynote lecture, *Handedness Facts: from Evolution to Neuroscience*, Rome, Italy.
- Culham, J. C.** (August 2016). Neural coding of real objects and real actions in the human brain. Keynote lecture, *ATR [Advanced Telecommunications Research Institute] Minisymposium on Sensorimotor Control and Robotics*, Kyoto, Japan.
- Culham, J. C.** (August 2016). The treachery of images: Why the brain responds differently to real object than photos. *NTT [Nippon Telegraph and Telephone] Communication Science Research Laboratories*, Atsugi-shi, Japan.
- Culham, J. C., Snow, J. C., Gerhard, T. M. & Schwarzer, G.** (July 2016). The treachery of images: Why the brain responds differently to real object than photos. *International Congress of Psychology*, Yokohama, Japan.
- Culham, J. C.** (July 2016). The treachery of images: Why the brain responds differently to real object than photos. Keynote Lecture, *CREATE-IRTG Summer School*, Glashuetten, Germany.
- Culham, J. C.** (July 2016). Bringing perception and action research into the real world. Meeting of Brains and Minds: Joint Symposium Between University of Geneva and Western University, *Université de Genève*, Geneva, Switzerland.
- Culham, J. C.** (June 2016). Neural representations for real objects and hand actions in the human brain, *University of Göttingen*, Göttingen, Germany.
- *Culham, J. C.** (June 2016). Basics of functional magnetic resonance imaging (fMRI) design and data analysis [6 lectures x 2 hours]. *University of Coimbra*, Coimbra, Portugal.
- Culham, J. C.** (June 2016). "The Treachery of Images": Why the brain responds differently to real objects than photos. Department of Experimental Psychology, *Oxford University*, Oxford, UK.
- Culham, J. C.** (June 2016). Introduction to Functional Magnetic Resonance Imaging. Workshop on "What Can We Learn about the Mind from Brain Imaging Evidence?" *Durham University*, Durham, UK.
- Culham, J. C.** (June 2016). "The Treachery of Images": Why the brain responds differently to real objects than photos. *University of York*, York, UK.
- Culham, J. C.** (June 2016). "The Treachery of Images": Why the brain responds differently to real objects than photos. *University of East Anglia*, Norwich, UK.
- Culham, J. C.** (June 2016). Neural representations for real objects and hand actions in the human brain, *University of Bangor*, Bangor, UK.
- Culham, J. C.** (May 2016). "The Treachery of Images": Why the brain responds differently to real objects than photos. *Royal Holloway University*, Egham, UK.
- Culham, J. C.** (April 2016). "The Treachery of Images": Why the brain responds differently to real vs. artificial objects and actions. *Sapienza University of Rome*, Rome, Italy.
- *Culham, J. C.** (March 2016). Advanced functional magnetic resonance imaging (fMRI) data analysis [3 lectures x 2 hours]. *SISSA (Scuola Internazionale Superiore di Studi Avanzati = International School for Advanced Studies)*, Trieste, Italy.
- Culham, J. C.** (March 2016). "The Treachery of Images": Why the brain responds differently to real objects than photos. *SISSA (Scuola Internazionale Superiore di Studi Avanzati = International School for Advanced Studies)*, Trieste, Italy.
- Culham, J. C.** (February 2016). "The Treachery of Images": Why the brain responds differently to real objects than photos *University of Verona*, Verona, Italy.
- Culham, J. C.** (January 2016). "The Treachery of Images": Why the brain responds differently to real objects than photos Center for Mind/Brain Sciences, *University of Trento*, Trento, Italy.
- Culham, J. C.** (December 2015). The neuroscience of human vision for perception and action. *Advanced Retinal Therapy*, Medical University of Vienna, Vienna, Austria.
- Culham, J. C.** (November 2015). The treachery of images": Why the brain responds differently to real object than photos. Donders Centre for Cognitive Science, *Radboud University*, Nijmegen, Netherlands.
- Culham, J. C.** (April 2015). Decoding of human hand and tool actions using brain imaging. Department of Kinesiology, *McMaster University*, Hamilton, Ontario.
- Culham, J. C.** (October 2014). The treachery of images": Human neuroimaging of real objects and real actions. Brain Research Centre, *University of British Columbia*, Vancouver, British Columbia.
- Culham, J. C.** (July 2014). Reaching, grasping and feeding actions in humans. Canadian Centre for Behavioural Neuroscience, *University of Lethbridge*, Lethbridge, Alberta.
- Culham, J. C.** (March 2014). "The treachery of images": Human neuroimaging of real objects and real actions. *Perceptual Expertise Network Workshop*, Denver, Colorado.
- Culham, J. C.** (March 2014). "The treachery of images": Human neuroimaging of real objects and real actions. Department of Cognitive Science, *Johns Hopkins University*, Baltimore, Maryland.
- Culham, J. C.** (September 2013). Decoding human hand and tool actions using functional magnetic resonance imaging. *Karolinska Institute*, Stockholm, Sweden.
- Culham, J. C.** (October 2013). "The treachery of images": Action and perception in the real world. *University of Michigan Functional MRI Laboratory*, Ann Arbor, Michigan.
- Culham, J. C.** (September 2013). Decoding of human hand and tool actions using functional magnetic resonance imaging. *Penn State University*, State College Pennsylvania.
- Culham, J. C.** (June 2013). Decoding of human hand and tool actions using functional magnetic resonance imaging. Marie Curie Network meeting on Brain Plasticity, *Oxford University*.
- Culham, J. C.** (May 2013). "The treachery of images": Why the brain responds differently to photos than real objects. Graduate Conference in Philosophy of Mind, Language, and Cognitive Science (PhilMilCog), *Western University*, London, Ontario.
- Culham, J. C.** (May 2013). "The treachery of images": How real objects affect human brain processing during action, perception and cognition tasks. *Banff Annual Seminar in Cognitive Science (BASiCS)*, Banff, Alberta.

- Culham, J. C.** (March 2013). Bringing the real world into the fMRI scanner: Human neuroimaging of real actions. Department of Psychology, *Concordia University*, Montreal, Quebec.
- Culham, J. C.** (March 2013). “The treachery of images”: Human neuroimaging of real object recognition processes. Department of Psychology, *Concordia University*, Montreal, Quebec.
- Culham, J. C.** (March 2013). Bringing the real world into the fMRI scanner: Human neuroimaging of real objects and actions. Neural Systems and Plasticity Research Group, *University of Saskatchewan*, Saskatoon, Saskatchewan.
- Culham, J. C.** (March 2013). “The treachery of images”: Action and perception in the real world. Department of Psychology colloquium (in honour of promotion to Full Professor), *Western University*, London, Ontario.
- Culham, J. C.** (November 2012). Decoding of human hand and tool actions using functional magnetic resonance imaging. Institute of Biophysics, *Chinese Academy of Sciences*, Beijing, China.
- Culham, J. C.** (November 2012). Decoding of human hand and tool actions using functional magnetic resonance imaging. Department of Psychology, *Peking University*, Beijing, China.
- Culham, J. C.** (November 2012). Decoding of human hand and tool actions using functional magnetic resonance imaging. Department of Biological Science and Medical Engineering, *Beihang University*, Beijing, China.
- ***Culham, J. C.** (November 2012). Tutorial: Brain machine interfaces. Department of Biological Science and Medical Engineering, *Beihang University*, Beijing, China
- ***Culham, J. C.** (November 2012). Tutorial: Human brain imaging methods. Department of Biological Science and Medical Engineering, *Beihang University*, Beijing, China
- Culham, J. C.** (June 2012). How does the human brain use tools?: From observation and pantomiming to real tool use in the fMRI scanner. *International Neuropsychological Symposium*, Bonifacio, Corsica, France.
- Culham, J. C.** (June 2012). What has neuroimaging revealed about the two visual streams in the human brain? *Canadian Society for Brain, Behaviour and Cognitive Science*, Kingston, Ontario.
- Culham, J. C.** (April 2012). Behavioral and neuroimaging investigations of residual vision in a patient with extensive bilateral occipitotemporal lesions. *Ophthalmology Grand Rounds, St. Joseph's Hospital*, London, Ontario.
- Culham, J. C., & Gallivan, J. P.** (March 2012). Decoding action-related fMRI signals in the two visual streams. *Radboud University Nijmegen*, Netherlands.
- Culham, J. C., & Gallivan, J. P.** (March 2012). Decoding of human hand actions using functional magnetic resonance imaging. Mini-symposium: Visuomotor processing in the parietal lobe. Neuroimaging Research Group, *Utrecht University*.
- Culham, J. C., & Gallivan, J. P.** (March 2012). Decoding of human hand actions using neuroimaging. *University College London*.
- Culham, J. C.** (December 2011). Neuroimaging of human tool use. *SISSA (Scuola Internazionale Superiore di Studi Avanzati = International School for Advanced Studies)*, Trieste, Italy.
- Culham, J. C.** (June 2011). Neural coding of hand actions in the human brain. *Organization for Human Brain Mapping*, Quebec City, Quebec.
- Culham, J. C. & Gallivan, J. P.** (May 2011). Decoding of human hand actions using functional magnetic resonance imaging. *Center for Mind/Brain Sciences (CIMeC)*, University of Trento, Rovereto, Italy.
- Culham, J. C.** (May 2011). Bringing the real world into the brain scanner: Functional magnetic resonance imaging of perception and action for real objects. *Workshop on Concepts, Actions and Objects (CAOS)*, Center for Mind/Brain Sciences, Rovereto, Italy.
- Culham, J. C. & Gallivan, J. P.** (April 2011). Decoding of human hand actions using functional magnetic resonance imaging. Department of Psychology, *York University*, Toronto.
- Culham, J. C. & Gallivan, J. P.** (January 2011). Decoding of human hand actions using functional magnetic resonance imaging. *Federation of European Neuroscience Societies – International Brain Research Organization (FENS-IBRO) Hertie Winter School*. Obergurgl, Austria.
- Culham, J. C.** (October 2010). Bringing the real world into the brain scanner: Functional magnetic resonance imaging of perceiving and acting upon real objects. Neuroscience and Applied Cognitive Science seminar, Department of Psychology, *University of Guelph*, Guelph, Ontario.
- Culham, J. C.** (October 2010). Bringing the real world into the brain scanner: Functional magnetic resonance imaging of perceiving and acting upon real objects. Center for Motor Control, *Penn State University*, State College, Pennsylvania.
- Culham, J. C., Monaco, S., & Gallivan, J. P.** (September 2010). Parietal coding of movement components and object properties in reaching and grasping. *International Conference on Parietal Lobe Function*, Artis Zoo, Amsterdam, Netherlands.
- Culham, J. C.** (February 2010). “The treachery of images”: Action and perception in the real world. Centre for Neuroscience Studies, *Queen's University*, Kingston, Ontario.
- Culham, J. C.** (June 2009). Perception and action interactions: Evidence from neuropsychology, neuroimaging and transcranial magnetic stimulation. *Smith-Kettlewell Eye Research Institute*, San Francisco, California.
- Culham, J. C.** (May 2009). Neuroimaging of reaching actions in the human brain. Department of Human and General Physiology, *University of Bologna*, Italy.
- Culham, J. C.** (May 2009). Actions and perception in the real world. Centre for Studies and Research in Cognitive Neuroscience, *University of Bologna*, Italy.
- Culham, J. C.** (March 2009). Perception and action interactions: Evidence from neuropsychology, neuroimaging and transcranial magnetic stimulation. *Ben Gurion University of the Negev*, Be'er Sheva, Israel.
- Culham, J. C.** (March 2009). Neural coding within human brain regions involved in reaching and grasping. “The Functions of the Parietal Lobes”, Institute for Advanced Studies, *The Hebrew University*, Jerusalem, Israel.
- Culham, J. C.** (March 2009). Perception and action interactions: Evidence from neuropsychology, neuroimaging and transcranial magnetic stimulation. *Weizmann Institute*, Rehovot, Israel.

- Culham, J. C.** (March 2009). Perception and action interactions: Evidence from neuropsychology, neuroimaging and transcranial magnetic stimulation. *University of Glasgow*, Glasgow, Scotland.
- Culham, J. C.** (February 2009). Perception and action interactions: Evidence from neuropsychology, neuroimaging and transcranial magnetic stimulation. *University of Bangor*, Bangor, Wales.
- Culham, J. C.** (February 2009). Neural coding within human brain regions involved in reaching and grasping. *University of Parma*, Parma, Italy.
- Culham, J. C.** (February 2009). Grasping what you cannot see: Dissociations between action and perception in patients with brain damage. Public lecture, Institute of Advanced Studies, *University of Bologna*, Bologna, Italy.
- Culham, J. C.** (December 2008). Neuroimaging of hand actions in parietal and temporal cortex. Symposium on Parietal Cortex in Human and Non-Human Primates. *Katholieke Universiteit Leuven*, Leuven, Belgium.
- Culham, J. C.** (December 2008). The human neural substrates of grasping and reaching. *Hertie-Institute for Clinical Brain Research*. Tübingen, Germany.
- Culham, J. C.** (November 2008). Neuroimaging of perception and action in normal subjects and a neuropsychological patient with bilateral occipitotemporal lesions. *Université Catholique de Louvain*, Louvain-la-Neuve and Brussels, Belgium.
- ***Culham, J. C.** (November 2008). Experimental design and analysis of fMRI data. Two-day workshop at *Université Catholique de Louvain*, Louvain-la-Neuve, Belgium.
- Culham, J. C.** (October 2008). Imaging of sensorimotor functions – overview. Methods and Applications of Diffusion Tensor and Functional Magnetic Resonance Imaging, Umeå Neuroscience Society and Umeå Center for Functional Brain Imaging, *Umeå University*, Umeå, Sweden.
- Culham, J. C.** (October 2008). Imaging of visual functions – overview. Methods and Applications of Diffusion Tensor and Functional Magnetic Resonance Imaging, Umeå Neuroscience Society and Umeå Center for Functional Brain Imaging, *Umeå University*, Umeå, Sweden.
- Culham, J. C.** (October 2008). Neural coding within human brain regions involved in reaching and grasping. Colloquium, *Katholieke Universiteit Leuven*, Leuven, Belgium.
- Culham, J. C.** (October 2008). Neural coding within human brain regions involved in reaching and grasping. Colloquium, *Maastricht Brain Imaging Centre*, Maastricht, Netherlands.
- Culham, J. C.** (September 2008). Do graspable objects automatically convey affordances?: fMRI and behavioral pilot data. Harvard Vision Lab meeting, Department of Psychology, *Harvard University*, Cambridge, Massachusetts
- Culham, J. C. & Quinlan, D. J.** (September 2008). From Hand to Mouth: The kinematics of human feeding actions. Harvard Vision Lab, Department of Psychology, *Harvard University*, Cambridge, Massachusetts.
- Culham, J. C.** (September 2008). Neural coding within human brain regions involved in reaching and grasping. Colloquium for the Department of Brain and Cognitive Science, *Massachusetts Institute of Technology*, Cambridge, Massachusetts.
- Culham, J. C., & Valyear, K. F.** (July 2008). Neuroimaging investigations of tool-selective regions in the human dorsal and ventral streams. *Asia Pacific Conference on Vision*, Brisbane, Australia.
- Culham, J. C.** (May 2008). Using visual information to guide actions: Insights from functional imaging. *Canadian Association for Neuroscience* meeting, Montréal, Quebec.
- Culham, J. C.** (November 2007). Neuroimaging of hand actions in human parietal cortex. Centre for Neuroscience Studies, *Queen's University*, Kingston, Ontario.
- Culham, J. C.** (October 2007). Human neuroimaging of reaching and reachable objects. Department of Physiology at the *Université de Montréal*, Montréal, Quebec.
- Culham, J. C.** (July 2007). Neuroimaging of human brain regions involved in reaching and grasping. Summer Institute of Cognitive Neuroscience, *National Central University*, Jhongli City, Taiwan.
- Culham, J. C.** (July 2007). Neuroimaging of reaching, reachable objects, and tool use. Summer Institute of Cognitive Neuroscience, *National Central University*, Jhongli City, Taiwan.
- Culham, J. C.** (June 2007). Neural coding of reaching and reachability in human occipital and parietal cortex. *Centre for Vision Research Conference on Cortical Mechanisms of Vision*, York University, Toronto, Ontario.
- Culham, J. C.** (May 2007). What does the brain do when you fake it?: fMRI investigations of delayed and pantomimed grasping. *Canadian Association for Neuroscience*, Toronto, Ontario.
- Culham, J. C.** (October 2006). The control of actions in the human brain. *Adam Mickiewicz University*, Poznan, Poland.
- Culham, J. C.** (October 2006). The control of actions in the human brain. *Nencki Institute*, Warsaw, Poland.
- Culham, J. C.** (June 2006). The neural substrates of reaching and grasping. *University of Nottingham*, U.K.
- Culham, J. C., Quinlan, D. J., Cavina-Pratesi, C., & Gullivan, J. P.** (June 2006). Interactions in action: Brain systems for visually guided actions. *34th Carnegie Symposium on Cognition: Embodiment, Ego-space, and Action*. Pittsburgh, Pennsylvania.
- Culham, J. C.** (February 2006). Interactions in action: Relationships between systems and brain regions in grasping, reaching, and feeding behaviours. *Lake Ontario Visionary Establishment (L.O.V.E.)* annual meeting, Niagara Falls, Ontario.
- Culham, J. C., Cavina Pratesi, C. & Singhal, A.** (December 2005). Grasp-related fMRI activation in dorsal and ventral streams. Workshop on Object Manipulation from a Perception-Action Perspective, *Netherlands Organization for Scientific Research*, Nijmegen, The Netherlands.
- Culham, J. C.** (September 2005). Informal talk at the *Leverhulme Trust group meeting* (to support collaborations between Western, Durham, Oxford and INSERM-Lyon), Durham, U.K.
- Culham, J. C.** (August 2005). fMRI reveals dissociations and interactions between dorsal and ventral stream brain areas in immediate and delayed grasping. Perception and Action Workshop, Rauschholzhausen Castle. *Giessen and Marburg Universities*, Germany.

- Culham, J. C.** (May 2005). Imaging the brain during reaching and grasping. Centre for Vision Research. *York University*, Toronto, Ontario.
- ***Culham, J. C.** (May 2005). Experimental design and analysis of fMRI data. Workshop at *Dalhousie University*, Halifax, Nova Scotia.
- Culham, J. C.** (April 2005). Grasp-related fMRI activation in the dorsal and ventral streams. *Vision Sciences Society Satellite Symposium, From Eye to Hand: The Role of Vision in Grasping*. Sarasota, Florida.
- ***Culham, J. C.** (April 2005). Experimental design and fMRI statistics. Workshop at the Bergen fMRI Group, *University of Bergen*, Bergen Norway.
- Culham, J. C.** (March 2005). fMRI dissociations between perceiving and grasping objects. Department of Psychology, *Indiana University*, Bloomington, Indiana.
- Culham, J. C.** (February 2005). fMRI dissociations between perceiving and grasping objects. Cognition Brown Bag, Department of Psychology, *University of Western Ontario*, London, Ontario.
- Culham, J. C.** (December 2004). fMRI research on action & perception and its challenges. *Siemens MRI Division*, Erlangen, Germany.
- Culham, J. C.** (November 2004). fMRI dissociations between perceiving and grasping objects. Ebbinghaus Empire series, Department of Psychology, *University of Toronto*, Toronto, Ontario.
- Culham, J. C.** (September 2004). fMRI of human parietal cortex during visually-guided grasping: An update. Informal talk at the *Leverhulme Trust group meeting* (to support collaborations between Western, Durham, Oxford and INSERM-Lyon), London, Ontario.
- Culham, J. C.** (October 2003). Object grasping without object recognition: fMRI studies of normal subjects and a patient with visual form agnosia. *West Virginia University*, Morgantown, West Virginia.
- Culham, J. C.** (October 2003). Dissociations between grasping and perceiving objects: Evidence from fMRI on normal subjects and a patient with visual form agnosia. Cognition/Perception seminar, Department of Psychology, *McMaster University*, Hamilton, Ontario.
- Culham, J. C.** (August 2003). fMRI of human parietal cortex during visually-guided grasping. Informal talk at the *Leverhulme Trust group meeting* (to support collaborations between Western, Durham, Oxford and INSERM-Lyon), Lyon, France.
- Culham, J. C.** James, T. W., Steeves, J. K. E., Humphrey, G. K., Milner, A. D., & Goodale, M. A. (June 2003). fMRI investigations of spared visual abilities in a patient with visual form agnosia. *International Neuropsychological Symposium*, Mondello Sicily.
- Culham, J. C.** (September 2002). Human neural substrates of visually-guided grasping. *The Neural Bases of Visuomotor Control*, La Londe, France.
- Culham, J. C.** (August 2002). Brain imaging of human parietal cortex: A call to "action". *Massachusetts Institute of Technology*, Department of Brain and Cognitive Sciences, Cambridge, Massachusetts.
- Culham, J. C.** (July 2002). fMRI investigations of visually-guided grasping. *Attention and Performance XX: Functional Brain Imaging of Visual Cognition*, Erice, Sicily.
- Culham, J. C.** (May 2002). Human brain imaging reveals a parietal area specialized for grasping. *Eye Hand Coordination Workshop*, Queen's University, Kingston, Ontario.
- Culham, J. C.** (March 2001). Neuroimaging of human parietal cortex: fMRI Investigations of motion, attention, eye movements and action. *McGill University* Department of Psychology, Montreal, Quebec.
- Culham, J. C.** (February 2001). Neuroimaging of human parietal cortex: fMRI Investigations of motion, attention, eye movements and action. *University of California*, Davis Center for Neuroscience, Davis, California.
- Culham, J. C.** (January 2001). Neuroimaging of human parietal cortex: fMRI Investigations of motion, attention, eye movements and action. *University of Western Ontario* Department of Psychology, London, Ontario.
- Culham, J. C., DeSouza, J. F. X., Osu, R., Milner, A. D., Gati, J. S., Menon, R. S., & Goodale, M. A.** (July 2000). Grasping produces fMRI activation in human anterior intraparietal sulcus. Joint meeting of the *Canadian Society for Brain, Behaviour and Cognitive Science and the Experimental Psychology Society* (UK). Cambridge, U.K.
- Culham, J. C., DeSouza, J. F. X., Quinlan, D., Woodward, S., & Goodale, M. A.** (June 2000). Human neural substrates of visually-guided grasping. Invited poster at the annual meeting of the *McDonnell-Pew Program in Cognitive Neuroscience*, Durham, North Carolina.
- Culham, J. C.** (June 2000). Parietal activation for attention and action revealed by fMRI. *Southern Ontario Neuroscience Association*. London, Ontario.
- Culham, J. C.** (December 1998). More than a one-track mind: fMRI studies of attention to multiple moving targets. Keynote speech at the *Nederlandse Vereniging voor Psychonomie Symposium*, Kijken naar het Actieve Brein ("Looking at the Active Brain"), Utrecht University, Netherlands.
- Culham, J. C.** (February 1998). More than a one-track mind: fMRI studies of attention to multiple moving targets. *Center for the Neural Basis of Cognition* (Carnegie-Mellon/University of Pittsburgh), Pittsburgh, Pennsylvania.

CONFERENCE PRESENTATIONS (188)

Abstracts are published in conference proceedings unless otherwise specified.

- Maltz, M. V., Stubbs, K. M., Quinlan, D. J., Rzepka, A., Martin, J. & Culham, J. C. (June 2020). Familiar size affects size and distance perception for real objects, even in the presence of oculomotor cues, *Virtual Vision Sciences Society* (online).
- Coricelli, C., Stubbs, K. M., Rumiati, R. I., Culham, J. C. (June 2020). Decoding representations of food images within the ventral visual stream. *Virtual Vision Sciences Society* (online).

- Monaco, S., Malfatti, G., **Culham**, J., Cattaneo, L., & Turella, L. (October 2019). Overlapping but not shared neural representation for planning and imagining hand movements in the Early Visual Cortex, *Rovereto Attention Workshop*, Rovereto, Italy.
- Maltseva, M. V., Quinlan, D. J., Stubbs, K. M., Konkle, T., & **Culham**, J. C. (October 2019). Which aspects of size and distance for real objects are coded through the hierarchy of visual areas? *Society for Neuroscience*, Chicago, Illinois.
- Coricelli, C., Stubbs, K. M., Rumiati, R. I., **Culham**, J. C. (October 2019). Decoding representations of food images within the ventral visual stream. *Society for Neuroscience*, Chicago, Illinois.
- Turella, L., Malfatti, G., Monaco, S., **Culham**, J., & Cattaneo, L. (September 2019). Decoding modality-invariant spatial targets from planning-related activity in early visual areas. *Federation of European Physiological Society*, Bologna, Italy.
- Monaco, S., Malfatti, G., **Culham**, J., Cattaneo, L., & Turella, L. (June 2019). Decoding real and imagined actions in the Early Visual Cortex., *International Congress on Cognitive Neurodynamics*, University of Sassari, Italy.
- Turella, L., Malfatti, G., Monaco, S., **Culham**, J., & Cattaneo, L. (June 2019). Modality-invariant representation of spatial targets within V1 during action planning. *Organization for Human Brain Mapping*, Rome, Italy.
- Klein, L. K., Maiello, G., Proklova, D., Paulun, V. C., **Culham**, J. C., & Fleming, R. W. (May 2019). Which brain areas are responsible for which aspects of grasping? *Vision Sciences Society*, St. Pete Beach, Florida.
- Maltseva, M. V., Quinlan, D. J., Stubbs, K. M., Konkle, T., & **Culham**, J. C. (May 2019). Which aspects of size and distance for real objects are coded through the hierarchy of visual areas? *Vision Sciences Society*, St. Pete Beach, Florida.
- Culham**, J. C., Schumacher, S. M., Quinlan, D. J., Stubbs, K. M., Basmaji, J., Leblanc, C. L., Segall, R. E., & Parma, V. (May 2019). Adults prefer to look at real objects more than photos. *Vision Sciences Society*, St. Pete Beach, Florida.
- Sensoy, O., **Culham**, J. C., & Schwarzer, G. (May 2019). Only real objects, but not photographs enhance infants' understanding of the familiar size of objects. Joint meeting of the Departments of Developmental Psychology and Educational Psychology (PaEpsy), Leipzig, Germany.
- Culham**, J. C., Schumacher, S. M., Quinlan, D. J., Stubbs, K. M., & Parma, V. (May 2018). Adults prefer to look at real objects more than photos. *Workshop on Concepts, Actions, and Objects (CAOS)*, Rovereto, Italy.
- Klein, L. K., Maiello, G., Proklova, D., Chen, J., Paulun, V. C., **Culham**, J. C., & Fleming, R. W. (May 2018). Predicting how we grasp arbitrary objects, *Vision Sciences Society*, St. Pete Beach, Florida.
- Sensoy, O., **Culham**, J. C., & Schwarzer, G. (July 2018). Do infants understand the true size of objects? *International Conference for Infant Studies*, Philadelphia, Pennsylvania.
- Gerhard, T. M., **Culham**, J. C., & Schwarzer, G. (July 2018). Visual preference for real objects over pictures is related to 7-month-old infants' manual object exploration. *International Conference for Infant Studies*, Philadelphia, Pennsylvania.
- Sensoy, O., **Culham**, J. C., & Schwarzer, G. (March 2018). The true size of a familiar object influences 12-month-old infants' visual preferences. *Conference of Experimental Psychologists (TeaP)*, Marburg, Germany.
- Gerhard, T. M., **Culham**, J. C., & Schwarzer, G. (March 2018). Visual preference for real objects over pictures is related to 7-month-old infants' manual object exploration. *Conference of Experimental Psychologists (TeaP)*, Marburg, Germany.
- Laidlaw, K.E.W., Cooper, J.A., Goodale, M.A., & **Culham**, J.C. (November 2017). Do social intention-based changes in action vary as a function of social aptitude? Poster at the annual meeting of the *Psychonomic Society*, Vancouver, B.C.
- Cooper, J. A., Laidlaw, K. E. W., Goodale, M. A., & **Culham**, J. C. (May 2017). Reaching-to-grasp my intention: Relating communication skill with social action kinematics. Poster presented at the *Canadian Action and Perception (CAPnet) Satellite Symposium* at the Canadian Association for Neuroscience, Montreal, Quebec.
- Schumacher, S. M., Quinlan, D. J., Stubbs, K. M., Parma, V. & **Culham**, J. C. (May 2017). Adults prefer to look at real objects more than pictures. Talk presented at the *Canadian Action and Perception (CAPnet) Satellite Symposium* at the Canadian Association for Neuroscience, Montreal, Quebec.
- Laidlaw, K. E. W., Walton-Ball, E., **Culham**, J. C. & Goodale, M. A. (July 2017). Signalling intentions: The influences of partner response accuracy on social action behaviours. *Joint Action Meeting*, London, U. K.
- Maltseva, M. V., Stubbs, K. M., Goodale, M. A. & **Culham**, J. C. (May 2017). Congruent familiar size relationships decrease size contrast illusion. Poster at *Vision Sciences Society*, St. Pete Beach, Florida.
- Macdonald, S., van den Heiligenberg, F., Makin, T., & **Culham**, J.C. (May 2017). Videos are more effective than pictures at localizing tool- and hand-selective activation in fMRI. Poster at *Vision Sciences Society*, St. Pete Beach, Florida.
- Monaco, S., Malfatti, G., **Culham**, J. C., Cattaneo, L., & Turella, L. (May 2017). Decoding real and imagined actions: overlapping but distinct representations for planning vs. imagining hand movements. Poster at *Vision Sciences Society*, St. Pete Beach, Florida.
- Yan, A. & **Culham**, J. C. (May 2017). A new multivariate analysis method suggests timing is key factor in visually guided reach-to-grasp actions. Poster at *Vision Sciences Society*, St. Pete Beach, Florida.
- Gerhard, T. M., **Culham**, J. C., & Schwarzer, G. (April 2017). Distinct visual processing of real objects and corresponding pictures in 7- to 9-month-old infants. Poster at *Society for Research in Child Development*, Austin, Texas.
- Laidlaw, K. E. W., **Culham**, J. C., & Goodale, M. A. (November 2016). This is for you: Influences of social intentionality on reach-to-grasp actions. Poster at *Psychonomic Society*, Boston, MA, USA.
- Chang, B., Stubbs, K., Quinlan, D., & **Culham**, J. C. (November 2016). Interception of virtual dynamic objects in atypical gravitational accelerations. Abstract at *Society for Neuroscience*, San Diego, CA, USA.

- Monaco S, Malfatti G, Cattaneo L, **Culham**, J. C., Turella L (November 2016). Human neuroimaging suggests overlapping but distinct representations for planning vs. imagining hand actions. Poster at *Society for Neuroscience*, San Diego, CA, USA.
- Vesia, M., **Culham**, J. C., Jegatheeswaran, G., Isayama, R., Le, A., & Chen, R. (November 2016). Human dorsal premotor cortex transfers grasp-related information to primary motor cortex hand representation during the preparation for an upcoming grasp: a dual-site TMS study. Abstract at *Society for Neuroscience*, San Diego, CA, USA.
- Freud**, E., Behrmann, M., & **Culham**, J. C. (November 2016). Differential sensitivity to object's whole versus parts in ventral and dorsal pathways. Talk at *Society for Neuroscience*, San Diego, CA, USA.
- Vesia, M., Jegatheeswaran, G., Isayama, R., Le, A., **Culham**, J. C., & Chen, R. (June 2016). Excitability of human dorsal premotor cortex and ipsilateral primary motor cortex interactions prior to grasp. Poster at *Canadian Association for Neuroscience Meeting*, Toronto, ON, Canada.
- Freud**, E., **Macdonald**, S. N., **Chen**, J., **Quinlan**, D. J., Goodale, M. A., & **Culham**, J. C. (May 2016). Getting a grasp on real objects and pictures: Grasping movements directed to real objects and pictures rely on dissociable neural representations. *Canadian Action and Perception Network (CAPnet) Satellite Symposium* (at Canadian Association for Neuroscience conference), Toronto, ON, Canada.
- Gallivan**, J. Chapman, C., Flanagan, R., & **Culham**, J. (May 2016). Selective modulation and remapping of neural response patterns in visual cortex by movement preparation. *Canadian Action and Perception Network (CAPnet) Satellite Symposium* (at Canadian Association for Neuroscience conference), Toronto, ON, Canada.
- Monaco S, Malfatti G, Cattaneo L, **Culham**, J. C., Turella L (May 2016). Human neuroimaging suggests overlapping but distinct representations for planning vs. imagining hand actions. Poster at *Concepts, Actions and Objects*, Rovereto, Italy.
- Culham**, J. C., **Fabbri**, S., **Gallivan**, J. P., **Freud**, E., & **Snow**, J. C. (May 2016). Human neuroimaging reveals the importance of real hand actions upon real objects for neural coding in the anterior intraparietal sulcus. Talk at *Neural Control of Movement*, Montego Bay, Jamaica.
- Hahamy, A., Macdonald, S., van den Heiligenberg, F., Kieliba, P., Malach, R., Emir, U., **Culham**, J., Johansen-Berg, H., & Makin, T. (May 2016). Cortical sensorimotor reorganization following congenital hand absence. Poster at *Neural Control of Movement*, Montego Bay, Jamaica.
- Monaco, S., Malfatti, G., Cattaneo, L., **Culham**, J. C. & Turella, L. (May 2016). Human neuroimaging suggests overlapping but distinct representations for planning vs. imagining hand actions. Poster at the *Concepts, Actions and Objects Workshop*, Rovereto, Italy.
- Snow**, J. C., **Squires**, S. D., **Stubbs**, K. M., & **Culham**, J. C. (May 2016). fMRI reveals different activation patterns for real objects vs. photographs of objects. *Vision Sciences Society*, St. Pete Beach, FL.
- Gerhard**, T., **Culham**, J., & Schwarzer, G. (March 2016). Distinct visual habituation to real objects and pictures of those objects in infancy. Talk at *Tagung experimenteller arbeitender Psychologen*, Heidelberg, Germany.
- Culham**, J. C., Arcaro, M. J., Thaler, L., **McLean**, D. A., **Quinlan**, D. J., Dutton, G. N., Goodale, M. A. & Kastner, S. (January 2016). Cortical and subcortical responses to moving stimuli in a patient with Riddoch phenomenon arising from bilateral visual cortex lesions. Poster [also selected for oral presentation] at *European Workshop on Cognitive Neuropsychology*. Bressanone, Italy.
- Snow**, J. C., **Squires**, S. D., **Stubbs**, K. M., & **Culham**, J. C. (October 2015). fMRI reveals different activation patterns for real objects vs. photographs of objects. Talk at *Society for Neuroscience*, Chicago, IL.
- Squires**, S. D., **Snow**, J. C., **Stubbs**, K. M., & **Culham**, J. C. (October 2015). fMRI reveals representational similarity for objects that are used on the body vs. other objects. Poster at *Society for Neuroscience*, Chicago, IL.
- Macdonald**, S., van den Heiligenberg, F., **Culham**, J. C. & Makin, T. (October 2015). Localizing tool- and hand-selective areas with fMRI: Comparing video and picture stimuli. Poster at *Society for Neuroscience*, Chicago, IL.
- van den Heiligenberg, F., Orlov, T., **Macdonald**, S., Duff, E., Henderson-Slater, D. H., Johansen-Berg, H., **Culham**, J. C. & Makin, T. (October 2015). Activity in hand- and tool-selective regions for prosthetic limbs associated with prosthesis usage in everyday life. Poster at *Society for Neuroscience*, Chicago, IL.
- Gallivan**, J. P., **Chapman**, C. S., **McLean**, D. A., Flanagan, J. R., & **Culham**, J. C. (October 2015). Movement intention modulates neural responses in visual cortex. Talk at *Society for Neuroscience*, Chicago, IL.
- Maltseva**, M., **Stubbs**, K., Goodale, M. A., & **Culham**, J. C. (October 2015). Familiar size relationships decrease size contrast illusion. *Society for Neuroscience*, Chicago, IL.
- Cardinali**, L, Makin, T. R., & **Culham**, J. C. (October 2015). Hand and tool positions differentially affect saccadic reaction times. Poster at *Society for Neuroscience*, Chicago, IL.
- Karl**, J. M., **Quinlan**, D. J., Whishaw, I. Q., & **Culham**, J. C. (May 2015). Does behavioral dissociation of real vs. pantomime movements only apply to visually guided actions or is it a general feature of motor control? Poster at *Vision Sciences Society*, St. Pete Beach FL. [Abstract published in *Journal of Vision*, 15(12), 1157].
- Macdonald**, S., van den Heiligenberg, F., **Culham**, J. C. & Makin, T. (May 2015). Localizing tool and hand-selective areas with fMRI: Comparing video and picture stimuli. Poster at *Vision Sciences Society*, St. Pete Beach FL. [Abstract published in *Journal of Vision*, 15(12), 982].
- van den Heiligenberg, F., **Macdonald**, S., Duff, E., Slater, D. H., Johansen-Berg, H., **Culham**, J. C. & Makin, T. (May 2015). Activity in hand- and tool-selective regions for prosthetic limbs associated with prosthesis usage in everyday life. Poster at *Vision Sciences Society*, St. Pete Beach FL. [Abstract published in *Journal of Vision*, 15(12), 983].
- Karl**, J. M., **Quinlan**, D. J., **Stubbs**, K. M., Whishaw, I. Q., **Culham**, J. C. (February 2015). Fake feeding: Kinematic differences between real vs. pantomime hand-to-mouth actions suggest dual routes from somatosensation to action. Talk at the *Canadian Spring Conference on Brain and Behaviour*, Fernie, BC.

- Fabbri, S., Stubbs, K., Cusack, R., & Culham, J. C. (November 2014). Similarity of representations in human dorsal- and ventral-stream brain regions during object viewing and grasping. Poster at the *Society for Neuroscience*, Washington, DC.
- Squires, S. D., Macdonald, S. N., Quinlan, D. J., Paciocco, J. U., Culham, J. C., & Snow, J. C. (July 2014). Do real tools prime hand actions more than photographs of tools? Poster at *Canadian Society for Brain, Behaviour and Cognitive Science*, Toronto, ON.
- Squires, S. D., Macdonald, S. N., Quinlan, D. J., Paciocco, J. U., Culham, J. C., & Snow, J. C. (May 2014). Do real tools prime hand actions more than photographs of tools? Poster at *Southern Ontario Neuroscience Association*, London, ON.
- Barnett-Cowan, M., Buckingham, G., & Culham, J. C. (May 2014). The “Verge-Weight” Illusion. Poster at the *Vision Sciences Society*, St. Pete Beach, FL. [Abstract published in *Journal of Vision*, 14(10), 404].
- Chen, J., Goodale, M. A., Culham, J. C., & Snow, J. C. (May 2014). fMRI activation and connectivity in the dorsal and ventral visual streams for elongated and stubby tools and non-tools. Poster at the *Vision Sciences Society*, St. Pete Beach, FL. [Abstract published in *Journal of Vision*, 14(10), 189].
- Snow, J. C., Rangel, A., & Culham, J. C. (November 2013). Bringing the real world into the fMRI scanner: Real objects amplify the neural correlates of valuation compared to photos. Poster at the *Society for Neuroscience*, San Diego, CA.
- Vesia, M., Barnett-Cowan, M., Elahi, B., Neva, J. L., Davare, M., Staines, W. R., Culham, J. C., & Chen, R. (November 2013). Selective modulation of interactions between areas of the dorsomedial pathway during the transport and grip formation of goal-directed hand actions. Poster at the *Society for Neuroscience*, San Diego, CA.
- Macdonald, S. N., & Culham, J. C. (November 2013). Do human brain areas involved in visuomotor actions show a preference for real tools over visually similar non-tools? Poster at the *Society for Neuroscience*, San Diego, CA.
- Fabbri, S., Cusack, R., & Culham, J. C. (November 2013). Decoding the representations of grasp types and object properties in the human brain. Poster at the *Society for Neuroscience*, San Diego, CA.
- Cardinali, L., Roy, A. C., Culham, J. C., & Farné, A. (November 2013). The tool ownership illusion: Motor experience facilitates incorporation of a tool. Poster at the *Society for Neuroscience*, San Diego, CA.
- Wood, D. K., Chapman, C. S., Gallivan, J. P., Milne, J. L., Culham, J. C., & Goodale, M. A. (November 2013). The influence of bottom-up visual salience decays linearly in a compelled reaching paradigm. Poster at the *Society for Neuroscience*, San Diego, CA.
- Macdonald, S. N., & Culham, J. C. (May 2013). Do human brain areas involved in visuomotor actions show a preference for certain tool orientations? Poster at the *Canadian Association for Neuroscience*, Toronto ON.
- Culham, J. C., Snow, J. C., & Rangel, A. (May 2013). Bringing the real world into the fMRI scanner: Real objects amplify the neural correlates of valuation compared to photos. Poster at the *Vision Sciences Society*, Naples, FL. [Abstract published in *Journal of Vision*, 13(9), 499].
- Culham, J. C., Gallivan, J. P., McLean, D. A., & Valyear, K. F. (October 2012). Is a tool an extension of the body in the brain?: Decoding separate and shared representations for the hand and tool from human brain activity. Talk at *Society for Neuroscience*, New Orleans, LA.
- Barnett-Cowan, M., Snow, J. C., & Culham, J. C. (October 2012). Gravity dependent recognition of objects through active touch. Talk at *Society for Neuroscience*. New Orleans, LA.
- Snow, J. C., Goodale, M. A., & Culham, J. C. (October 2012). The lateral occipital cortex is not necessary for shape perception. Talk at *Society for Neuroscience*. New Orleans, LA.
- Gallivan, J. P., Snow, J. C., Pettypiece, C. E., & Culham, J. C. (October 2012). Haptic shape decoding in primary visual cortex. Talk at *Society for Neuroscience*. New Orleans, LA.
- McAdam, T. D., Gallivan, J. P., McLean, D. A., & Culham, J. C. (October 2012). Grasping with a twist: Decoding action intentions in the human brain using fMRI. Poster at *Society for Neuroscience*. New Orleans, LA.
- Paciocco, J. U., McLean, D. A., & Culham, J. C. (October 2012). The human neural correlates of real vs. pantomimed tool use revealed using fMRI. Poster at *Society for Neuroscience*. New Orleans, LA.
- Hutchison, R., Gallivan, J. P., Culham, J. C., Gati, J. S., Menon, R. S., & Everling, S. (October 2012). Homologous functional connectivity architecture of the monkey and human saccade-related networks. Talk at *Society for Neuroscience*. New Orleans, LA.
- Wood, D. K., Milne, J. L., Chapman, C. S., Gallivan, J. P., Culham, J. C., & Goodale, M. A. (June 2012). A reaching task reveals the rapid extraction of probability information from arbitrary colour cues. Poster at the *European Conference on Visual Perception*, Alghero Italy.
- Barnett-Cowan, M., Culham, J. C., & Snow, J. C. (June 2012). Haptic object recognition is influenced by the orientation of the body relative to gravity. Poster at *International Multisensory Research Forum*, Oxford, U.K. [Abstract published in *Seeing and Perceiving*, 2012, 25, 122].
- Snow, J. C., Goodale, M. A., & Culham, J. C. (June 2012). The lateral occipital area is not necessary for haptic shape representation. Talk at the *Canadian Society for Brain, Behaviour and Cognitive Science*. Kingston, ON.
- Gallivan, J. P., McLean, D. A., Valyear, K. F., & Culham, J. C. (June 2012). Decoding the neural mechanisms of human tool use. Talk at the *Canadian Society for Brain, Behaviour and Cognitive Science*. Kingston, ON.
- McAdam, T. D., McLean, D. A., Gallivan, J. P., & Culham, J. C. (June 2012). Grasping with a twist: fMRI decoding of object orientation and intended hand actions. Poster at the *Canadian Society for Brain, Behaviour and Cognitive Science*. Kingston, ON.
- Barnett-Cowan, M., Culham, J. C., & Snow, J. C. (June 2012). The haptic perceptual upright. Poster at the *Canadian Society for Brain, Behaviour and Cognitive Science*. Kingston, ON.
- Wood, D. K., Milne, J. L., Chapman, C. S., Gallivan, J. P., Culham, J. C., & Goodale, M. A. (June 2012). A reaching task reveals the rapid extraction of probability information from arbitrary colour cues. Poster at the *Canadian Society for Brain, Behaviour and Cognitive Science*. Kingston, ON.

- Snow, J. C., Strother, L., Coros, A., & Culham, J. C. (May 2012). How independent are form and color in the ventral visual pathway? Poster at *Vision Sciences Society*, Naples, FL. [Abstract published in *Journal of Vision*, 12(9), 510].
- Rossit, S., McAdam, T., McLean, D. A., Goodale, M. A., & Culham, J. C. (January 2012). Lower visual field preference for action in human superior parieto-occipital cortex (SPOC). Poster at the *Experimental Psychology Society*, London, U.K.
- Snow, J., & Culham, J. (November 2011). Is the lateral occipital complex necessary for haptic object recognition? Object shape representation in a visual agnostic with bilateral occipito-temporal lesions. Talk at the *Object Perception, Attention, and Memory* conference. Seattle, WA. [Abstract published in *Visual Cognition*, 19(10), 1318-1322].
- Arcaro, M. J., McLean, D. A., Quinlan, D. J., Dutton, G. N., Goodale, M. A., Kastner, S., & Culham, J. C. (November 2011). Cortical and subcortical response properties in a patient with visual cortex lesions. Poster at the *Society for Neuroscience*, Washington, D. C.
- Gallivan, J. P., McLean, D. A., Smith, F. W., & Culham, J. C. (November 2011). Decoding effector-dependent and effector-independent movement intentions from human parieto-frontal brain activity. Talk at the *Society for Neuroscience*, Washington, D. C.
- Cavina-Pratesi, C., McLean, D. A., van Eimeren, L., Monaco, S., & Culham, J. C. (November 2011). Dorso-lateral versus dorso-medial streams in reach to grasp actions: Grip and transport components or amount of online control? Evidence from event-related fMRI. Talk at the *Society for Neuroscience*, Washington, D. C.
- Thaler, L., Paciocco, J., Daley, M., Lesniak, Purcell, Goodale, M. A. & Culham, J. C. (November 2011). A selective impairment of auditory perception of motion direction in peripheral space: A case study. Poster the *Society for Neuroscience*, Washington, D. C.
- Al Abdlseaed, A., Hamilton, R., Culham, J., & McColloch, D. L. (June 2011). Residual short-latency VEPs in a case of widespread occipital infarction. *British Society for Clinical Electrophysiology of Vision*, Newcastle, UK.
- Gribble, P. L., Mattar, A. A., Brown, L. E., Malfait, N., Wilson, E.T., Obhi, S.S., Valyear, K.F., Culham, J.C., Anton, J. L., Williams, A. (May 2011) Motor learning by observing. Poster at the *Society for Neural Control of Movement*, San Juan, Puerto Rico.
- Monaco, S., Sedda, A., Cavina-Pratesi, C., & Culham, J. C. (May 2011). fMRI adaptation reveals the neural substrates of size and location processing for three-dimensional objects during grasping. Poster at the *Concepts, Actions and Objects Workshop*, Rovereto, Italy.
- Snow, J., Pettypiece, C., McAdam, T., McLean, A., Stroman, P., Goodale, M. A., & Culham, J. (May 2011). Bringing the real world into the fMRI scanner: Robust release from adaptation for 2D pictures but not 3D objects. Poster at the *Vision Sciences Society*, Naples, Florida. [Abstract published in *Journal of Vision*, 11(11), 71].
- Rossit, S., McAdam, T., McLean, A., Goodale, M., & Culham, J. (May 2011). fMRI reveals a lower visual field preference in dorsal stream regions during hand actions. Talk at the *Vision Sciences Society*, Naples, Florida. [*Journal of Vision*, 11(11), 952].
- Gallivan, J. P., McLean, A., Smith, F. W., & Culham, J.C. (February 2011). Decoding effector-specific and effector-independent movement intentions from human parieto-frontal brain activity. Talk at the *Canadian Physiological Society/Canadian Action and Perception Network Conference*, Sainte Adele, Quebec.
- Rossit, S., McAdam, T., McLean, A., Goodale, M., & Culham, J. (February 2011). fMRI reveals a lower visual field preference in dorsal stream regions during hand actions. Talk at the *Canadian Physiological Society/Canadian Action and Perception Network Conference*, Sainte Adele, Quebec.
- Milne, J. L., Chapman, C. S., Gallivan, J. P., Wood, D. K., Culham, J. C., & Goodale, M. A. (February 2011). Object connectedness influences perceptual comparisons but not the planning or control of rapid reaches to multiple goals. Talk at the *Canadian Physiological Society/Canadian Action and Perception Network Conference*, Sainte Adele, Quebec.
- Gallivan, J. P., McLean, A., Valyear, K. F., Pettypiece, C., & Culham, J. C. (November 2010). Decoding movement intentions from preparatory activity in human parietal and premotor cortex. Talk at the annual meeting of the *Society for Neuroscience*, San Diego, California.
- Valyear, K. F., Gallivan, J. P., McLean, A., Chapman, C. S. & Culham, J. C. (November 2010). Neural priming of tool use. Poster at the annual meeting of the *Society for Neuroscience*, San Diego, California.
- Wood, D. K., Chapman, C. S., Gallivan, J. P., Milne, J. L., Culham, J. C., & Goodale, M. A. (November 2010). Visual salience of potential targets overrides spatial probabilities in a rapid reaching task. Poster at the annual meeting of the *Society for Neuroscience*, San Diego, California.
- Chapman, C. S., Gallivan, J. P., Wood, D. K., Milne, J. L., Culham, J. C., Ansari, D., & Goodale, M. A. (November 2010). Rapid reaching task 'points' toward different representations of number. Poster at the annual meeting of the *Society for Neuroscience*, San Diego, California.
- Monaco, S., Sedda, A., Cavina-Pratesi, C., & Culham, J. C. (November 2010). Where is it? How big is it? Different brain areas answer different questions about graspable three-dimensional object properties in an fMRI adaptation experiment. Poster at the annual meeting of the *Society for Neuroscience*, San Diego, California.
- Monaco, S., Sedda, A., Fattori, P., Galletti, C., & Culham, J. C. (January 2010). Cortical circuits processing wrist orientation for grasping: a functional magnetic resonance adaptation study. Poster at the annual meeting of the *European Workshop on Cognitive Neuropsychology*, Bressanone, Italy.
- Culham, J. C., Roebroek, A., Pullens, W. L. P. M., Jones, C. K., Khan, S. A., Dutton, G. N., Goodale, M. A., & Goebel, R. (October 2009). Anatomical and functional connectivity in a patient with preserved motion awareness and visuomotor functions despite large bilateral occipitotemporal lesions. Poster at *Society for Neuroscience*, Chicago, Illinois.
- Valyear, K. F., Chapman, C. S., Gallivan, J. P., & Culham, J. C. (October 2009). Tool identity can prime grasping, but only when the goal is to use. Submitted to *Society for Neuroscience*, Chicago, Illinois.

- Secen, J., Culham, J. C., & Giaschi, D. (October 2009). The cortical basis of multiple-object tracking deficits in amblyopia: An fMRI study. Poster at *Society for Neuroscience*, Chicago, Illinois.
- Snow, J., Pettypiece, C. E., McAdam, T. D., McLean, A. D., Stroman, P. W., & Culham, J. C. (October 2009). No fMRI repetition suppression for real 3D objects, only 2D pictures of objects: An unexpected result. Talk at *Society for Neuroscience*, Chicago, Illinois.
- Pettypiece, C. E., Goodale, M. A., & Culham, J. C. (October 2009). Incongruent haptic information is automatically incorporated into visually guided grasps and perceptual estimations. Poster at *Society for Neuroscience*, Chicago, Illinois.
- Monaco, S., Sedda, A., Fattori, P., Galletti, C., & Culham, J. C. (October 2009). Functional magnetic resonance adaptation (fMRA) reveals the involvement of the dorsomedial stream in wrist orientation for grasping. Talk at *Society for Neuroscience*, Chicago, Illinois.
- Chapman, C. S., Gallivan, J. P., Culham, J. C., & Goodale, M. A. (October 2009). Mental blocks: Using fMRI to reveal the encoding of obstacles during reach-to-grasp movements. Talk at *Society for Neuroscience*, Chicago, Illinois.
- Gallivan, J. P. & Culham, J. C. (October 2009). fMRI shows that the extent of reachable space encoded within superior parieto-occipital cortex depends on handedness. Talk at *Society for Neuroscience*, Chicago, Illinois.
- Wood, D.K., Monaco, S., McAdam, T. D., Dutton, G. N., Culham, J. C., & Goodale, M. A. (October 2009). Impaired selection of wrist posture in a patient with a parieto-occipital lesion. Talk at *Society for Neuroscience*, Chicago, Illinois.
- Gallivan, J. P., Chapman, C. S., Wood, D. K., Milne, J. L., Culham, J. C., & Goodale, M. A. (May 2009). Stuck in the middle: Kinematic evidence for optimal reaching in the presence of multiple potential reach targets. Poster at the *Vision Sciences Society*, Naples, Florida. [Abstract published in *Journal of Vision*, 9(8), 1153].
- Chapman C.S., Gallivan J.P., Wood D.K., Milne J., Culham J.C., & Goodale M.A. (May 2009) Dynamic Target Acquisition: Rapid reach responses in the presence of multiple potential reach targets. Canadian Neuroscience Meeting, Vancouver, BC.
- Malfait, N., Valyear, K. F., Culham, J. C., Brown, L. E., Anton, J.-L., & Gribble, P. L. (November 2008). fMRI activation during observation of others' reach errors. Poster at the annual meeting of the *Society for Neuroscience*, Washington, District of Columbia.
- Monaco, S., McAdam, D. T., McLean, A. D., Culham, J. C., Singhal, A. (November 2008). fMRI reactivation in the Lateral Occipital Complex during action execution and action imagery toward visually and haptically explored objects. Talk at the annual meeting of the *Society for Neuroscience*, Washington, District of Columbia.
- Valyear, K.F., Witt, J.K., Goodale, M.A., & Culham, J.C. (November 2008). Activation for viewing meaningful and meaningless tool actions in a patient with large bilateral lesions of occipito-temporal cortex. Poster at the annual meeting of the *Society for Neuroscience*, Washington, District of Columbia.
- Pettypiece, C.E., Goodale, M.A., & Culham, J.C. (November 2008). Kinematic differences between grasps based on visual and haptic information. Poster at the annual meeting of the *Society for Neuroscience*, Washington, District of Columbia.
- Culham, J. C., Wolf, M. E., Whitwell, R. L., Brown, L. E., Khan, S. A., Cant, J. S., Monaco, S., Dutton, G. N., & Goodale, M. A. (June 2008). fMRI and behavioral testing reveal preserved motion processing and visuomotor control in a patient with extensive occipitotemporal lesions. Talk at the Annual Meeting of the *Canadian Society for Brain, Behaviour and Cognitive Science*, London, Ontario, Canada.
- Monaco, S., Quinlan, D., Fattori, P., Galletti, C., Goodale, M. A., & Culham, J. C. (June 2008). How do vision and proprioception contribute to the precision of reaching? Poster at the annual meeting of the *Canadian Society for Brain, Behaviour and Cognitive Science*, London, Ontario, Canada.
- Gallivan, J.P., Chapman, C.S., & Culham, J.C. (May 2008). Do objects within reach prime the visuomotor system for action? *Canadian Association for Neuroscience*, Montreal, Quebec.
- Culham, J. C., Witt, J. K., Valyear, K. F., Dutton, G. N., & Goodale, M. A. (May 2008). Preserved processing of motion and dorsal stream functions in a patient with large bilateral lesions of occipitotemporal cortex. Talk at the annual meeting of the *Vision Sciences Society*, Naples, Florida. [Abstract published in *Journal of Vision*, 8(6), 372]
- Goodale, M. A., Wolf, M. E., Whitwell, R. L., Brown, L. E., Cant, J.S., Chapman, C., Witt, J. K., Arnott, S. R., Khan, S. A., Chouinard, P. A., Culham, J. C., & Dutton, G. N. (May 2008). Preserved motion processing and visuomotor control in a patient with large bilateral lesions of occipitotemporal cortex. Talk at the annual meeting of the *Vision Sciences Society*, Naples, Florida [Abstract published in *Journal of Vision*, 8(6), 371]
- Wolf, M. E., Whitwell, R. L., Brown, L. E., Cant, J. S., Chapman, C., Witt, J. K., Arnott, S. R., Khan, S. A., Chouinard, P. A., Culham, J. C., Dutton, G. N., & Goodale, M. A. (May 2008). Preserved visual abilities following large bilateral lesions of occipitotemporal cortex. Poster at the annual meeting of the *Vision Sciences Society*, Naples, Florida. [Abstract published in *Journal of Vision*, 8(6), 624]
- Brown, L. E., Culham, J. C., Króliczak, G., & Goodale, M. A. (May 2008). Improved blindsight near the hand is associated with increased fMRI activation in the superior parietal-occipital cortex. Poster at the annual meeting of the *Vision Sciences Society*, Naples, Florida. [Abstract published in *Journal of Vision*, 8(6), 52]
- Barry, R. L., Williams, J. M., Klassen, L. M., Culham, J. C., & Menon, R. S. (May 2008). Preprocessing pipeline considerations to compensate for paradigm-related subject movement. Poster at the annual meeting of the *International Society for Magnetic Resonance in Medicine*, Toronto, Canada.
- Gallivan, J.P., Chapman, C.S., & Culham, J.C. (2008). Do objects within reach prime the visuomotor system for action? Canadian Neuroscience Meeting, Montreal, Quebec.
- Malfait, N., Valyear, K. F., Culham, J. C., Anton, J.-L., & Gribble, P. L. (April/May 2008). fMRI activation during observation of others' reach errors. Poster at the annual meeting of the *Society for the Neural Control of Movement*, Naples, Florida.

- Gallivan, J. P., Cavina Pratesi, C., & Culham, J. C. (November 2007). Is that within reach? The human superior parieto-occipital cortex (SPOC) shows greater fMRI activation for reachable objects. Talk at the annual meeting of the *Society for Neuroscience*, San Diego, California.
- Cavina Pratesi, C., Monaco, S., McAdam, T., Milner, D., Schenk, T., & Culham, J. C. (November 2007). Which aspects of hand-preshaping does human AIP compute during visually guided actions? Evidence from event-related fMRI. Talk at the annual meeting of the *Society for Neuroscience*, San Diego, California.
- Monaco, S., Quinlan, D., Fattori, P., Galletti, C., Goodale, M. A. & Culham, J. C. (November 2007). Visual and proprioceptive guidance of reaching movements. Poster at the annual meeting of the *Society for Neuroscience*, San Diego, California.
- Zettel, J. L., Culham, J. C., Vilis, T., & Crawford, J. (November 2007). A comparison of saccade and pointing topography in the human posterior parietal cortex. Poster at the annual meeting of the *Society for Neuroscience*, San Diego, California.
- Large, M.-E., Cavina-Pratesi, C., Vilis, T., & Culham, J. C. (August 2007). The fate of 'unseen' faces: an fMRI investigation of awareness in the face perception network. Talk at the *European Conference on Visual Perception*, Arezzo, Italy.
- Large, M.-E., Cavina-Pratesi, C., Vilis, T., & Culham, J. C. (July 2007). The neural correlates of awareness in the face perception network. Poster at the *Experimental Psychology Society and Psychonomic Society Meeting*, Edinburgh, Scotland.
- Zettel, J., Vilis, T., Culham, J., & Crawford, D. (June 2007). A comparison of saccade and pointing topography between medial and lateral areas in the human posterior parietal cortex. Poster at the inaugural meeting of the *York Centre for Vision Research Conference: Cortical Mechanisms of Vision*, Toronto Ontario.
- Zettel, J., Vilis, T., Culham, J., & Crawford, D. (May 2007). A comparison of saccade and pointing topography between medial and lateral areas in the human posterior parietal cortex. Poster at the inaugural meeting of the *Canadian Association for Neuroscience*, Toronto Ontario.
- Valyear, K. F., & Culham, J. C. (May 2007). Grasping the function of tools: fMRI suggests that the ventral but not the dorsal stream codes the functional significance of objects. Poster at the inaugural meeting of the *Canadian Association for Neuroscience*, Toronto Ontario.
- Gallivan, J. P., Cavina-Pratesi, C., & Culham, J. C. (May 2007). The effects of reachability and tool use on fMRI activation in human brain regions involved in hand actions. Poster at the inaugural meeting of the *Canadian Association for Neuroscience*, Toronto Ontario.
- Valyear, K.F., & Culham, J.C. (May 2007). Grasping the function of tools: fMRI suggests that the ventral but not the dorsal stream codes the functional significance of familiar objects. Talk at the *Vision Sciences Society*, Sarasota, Florida.
- Gallivan, J. P., Cavina Pratesi, C., & Culham, J. C. (October 2006). Do objects within reach activate human brain regions involved in hand actions? An fMRI study. Poster at the *Society for Neuroscience*, Atlanta, Georgia.
- Wong, Y. J., Large, M.E., Aldcroft, A.J., Culham, J.C. & Vilis, T. (October 2006). The lateral occipital area does not require awareness to adapt binding cues. Poster at the *Society for Neuroscience*, Atlanta, Georgia.
- Króliczak, G., Quinlan, D. J., McAdam, T. D., & Culham, J. C. (October 2006). AIP shows grasp-specific fMRI adaptation for real actions. Talk at the *Society for Neuroscience*, Atlanta, Georgia.
- Cavina Pratesi, C., Fattori, P., Galletti, C., Quinlan, D., Goodale, M., & Culham, J. (October 2006). Event-related fMRI reveals a dissociation in the parietal lobe between transport and grip components in reach-to-grasp movements. Talk at the *Society for Neuroscience*, Atlanta, Georgia.
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