

Contact Information

Robarts Research Institute, Room 1232H
 Western University, London, ON, Canada
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Education

2004 – 2011 Queen's University, Kingston, ON, Canada
 Doctor of Philosophy, Neuroscience (Dr. Stephen H. Scott)
 Graduated with Highest Distinction (Governor General's Gold Medal)

1999 – 2004 Simon Fraser University, Burnaby, BC, Canada
 Bachelor of Applied Science, Electrical Engineering
 Graduated with Honours

Academic Employment

2020 – Present Western University, London, ON, Canada
 Associate Professor

2014 – 2020 Western University, London, ON, Canada
 Assistant Professor
 Physiology and Pharmacology (home department)
 Psychology (joint-appointment)
 Computer Science (cross-appointment)
 Biomedical Engineering (cross-appointment)

2014 – Present Robarts Research Institute, London, ON, Canada
 Scientist, Imaging Group

2014 – 2017 Umeå University, Umeå, Sweden
 Visiting Assistant Professor, Integrative Medical Biology

2011 – 2014 Umeå University, Umeå, Sweden
 Postdoctoral Researcher, Integrative Medical Biology

Research Chairs, Fellowships and Scholarships

2015 – 2025 Canada Research Chair (Tier 2), Canadian Institutes of Health Research (CIHR), \$500,000
Nationally-adjudicated program for "exceptional emerging researchers, acknowledged by their peers as having the potential to lead in their field".

2012 – 2014 Long-Term Fellowship, Human Frontiers Science Program, ~\$265,000
Internationally competitive fellowship program that supports research at the frontiers of life science. Success rate < 5%.

2011 – 2014 Postdoctoral Fellowship, CIHR, \$150,000
Nationally competitive fellowship program. Success rate 10-15%. Declined after 01/2012 to take up Long-Term Fellowship from Human Frontier Science Program.

2011 – 2012 Visiting Fellowship, Trinity College, Cambridge University, \$1300

2010 – 2011 Ontario Graduate Scholarship in Science and Technology, \$15,000

2009 – 2010 Ontario Graduate Scholarship, \$15,000

2006 – 2009 Doctoral Award, Canadian Institute of Health Research, \$105,000

2006 – 2007 Graduate Scholarship, Government of Ontario, \$15,000

Awards

2019	Stevenson Award, Canadian Physiological Society <i>Recognizes an outstanding young Canadian Physiologist within 10 years of their first faculty position. The awardee is chosen on the basis of scientific excellence. The award includes a keynote presentation at the annual meeting, travel to the conference and accommodation. One award annually.</i>
2018	Early Career Award, Society for the Neural Control of Movement <i>Recognizes outstanding contributions by scientists early in their careers (<10 years post-PhD) that have significantly advanced our understanding of the neural control of movement. Awardee present the Early Career Lecture at the annual Meeting. The award includes travel to the meeting, conference registration, accommodation and a \$500 prize. One award annually.</i>
2018	Dean's Award for Research Excellence (Junior Faculty), Schulich School of Medicine & Dentistry, Western University. <i>For excellence in academic endeavors with particular emphasis on exceptional performance in research. One award annually to basic research faculty within seven years of first faculty appointment.</i>
2015	Young Innovator Award, Petro-Canada (\$6,000) <i>Recognizes new researchers at Western University and Robarts Research Institute for work that is particularly innovative, impacts positively on the learning environment in their department, and has the potential to be of significance to society at large. Two awards presented annually.</i>
2013	Best Presentation Award, Umea University Neural Network Meeting
2011	Governor General's Gold Medal, Queen's University <i>Recognizes the graduate student completing their degree with highest standing. Two awards at Queen's per year.</i>
2009	Outstanding Achievement Award, Queen's University (\$1,000)
2006	Academic Award, Queen's University (\$8,000)
2004	Thesis Distinction, Engineering Science, Simon Fraser University
2004	4 th Place (Entrepreneurial Design), Canadian Engineering Competition
2004	2 nd Place (Entrepreneurial Design), Western Engineering Competition
2002	Communication Award, Advanced Systems Institute (\$500)
2002	Project Award, Center for Systems Science

Research Funding

2020 – 2023	Sober, S. (PI), Costa, R., Carey, M., Pandarinath, C., Person, A., Pruszynski, J.A. (co-PI). Emory-Simons International Motor Control Consortium. Simons Foundation Operating Grant, US\$2,800,000 (~\$3,800,000). <i>Team grant that had several components. My module had a total direct budget of ~US\$230,000 in addition to costs for customized fabrication of primate specific electrodes developed by the PI at Emory University.</i>
2019 – 2020	Pruszynski, J.A. (PI) Somatosensory microcircuits for real-hand function as revealed with two-photon imaging in marmosets. BrainsCAN Stimulus Grant, \$99,132.
2018 – 2019	Pruszynski, J.A. (PI). Real-world markerless tracking of the human hand in health and disease. Natural Science and Engineering Research Council, Engage Grant, \$25,000
2017 – 2022	Gribble, P.L (PI), Pruszynski, J.A. (collaborator). Sensory Motor Neuroplasticity and Motor Learning by Observing. Canadian Institutes of Health Research, Project Grant, \$694,240 <i>Intellectual support for one key aim that is built on our labs previous work investigating the neural basis of stretch reflexes and their modulation by cognitive factors.</i>

2017 – 2022	<p>Ansari, D., Corneil, B.C., Diedrichsen, J., Goodale, M., (PI) Grahn, J., Joianisse, M., Johnsrude, I., Kohler, S., Owen, A., Pruszynski, J.A. (co-PI). Laboratories and Equipment for Human Physiological and Behavioural Testing in the Brain and Mind Institute. Canada Foundation for Innovation and Ontario Research Fund, \$3,700,000.</p> <p><i>This grant had several sections. I took the lead on the 'reaching and grasping module' in terms of scientific motivation and writing. This module had a total budget of ~\$600,000 of which \$300,000 went to support the expansion of my human labs.</i></p>
2016 – 2021	<p>Pruszynski, J.A. (PI) Feature extraction in the tactile periphery: from basic neural mechanisms to better treatments for nerve injury. Canadian Institutes of Health Research, Foundation Grant, \$1,327,000.</p> <p><i>Highly competitive national operating grant scheme that provides core support for my research program.</i></p>
2016 – 2021	<p>Pruszynski, J.A. (PI) Neural basis of reaching, grasping and object manipulation. Early Researcher Award, Government of Ontario, \$150,000.</p>
2015 – 2020	<p>Pruszynski, J.A. (PI) Neural basis of reaching, grasping and object manipulation. Leader's Fund, Canada Foundation for Innovation and Ontario Research Fund, \$500,000.</p>
2015 – 2020	<p>Pruszynski, J.A. (PI) Sensory mechanisms in arm motor control. Natural Science and Engineering Research Council, Discovery Grant, \$145,000.</p>
2015 – 2016	<p>Pruszynski, J.A. (PI) Platform for creating and modifying motor noise in humans. Petro-Canada Young Innovator Award, \$6,000.</p>
2015 – 2016	<p>Corneil, B.D (PI), Culham, J.C., Goodale, M.A., Gribble, P.L., Pruszynski, J.A (Co-I). A portable system for the integrated measurement of human actions. Research Tools and Instrumentation Grant, NSERC RTI, \$139,655.</p>
2013 – 2015	<p>Pruszynski, J.A. (PI) Information Processing in Tactile Afferent Neurons. Open Grant, Swedish Medical Research Council, ~\$500,000.</p>
2013 – 2014	<p>Dimitriou, M. (PI) and Pruszynski, J.A (co-I). Interactive robotic manipulandum for human neuroscience, clinical assessment and rehabilitation. Grant, Kempe Foundation, ~\$210,000.</p>

Professional Activities

University Committees

- Executive Member, University Animal Use Committee, Western. 2017 – Present
- Member, Animal Research Communications Committee, Western. 2018 – 2019

Departmental Committees

- Member, Hiring Committee, Psychology, Western, 2019 – 2020
- Elected Member, Space Committee, Psychology, Western, 2019 – 2022
- Elected Member, Graduate Affairs Committee, Psychology, Western, 2015 – 2017
- Member, Promotions Committee, Department of Radiology, Queen's University, 2005

Other Committees

- Member, Roberts Trainee Committee, Western. 2016 – Present
- Member, BrainsCAN (CFREF) Trainee Committee, Western. 2016 – Present
- Member, BrainsCAN (CFREF) Imaging Core, Western. 2016 – Present
- Member, BrainsCAN (CFREF) Non-Human Primate Core, Western. 2016 – Present
- Member, Executive Council, Neuroscience Studies, Queen's University, 2006-2009

Academic Leadership

- Member, Program Committee, Society for Neuroscience. 2019 – Present
- Vice-chair, Theme E Subcommittee, Society for Neuroscience. 2019 – Present

- Co-organizer, Mechanisms of Dextrous Manipulation Meeting, Janelia Research Campus, Ashburn, VA. May 2018
- Co-founder and National Committee Member, Association for Canadian Early Career Researchers. 2015-2018.
- Elected Board Member, Society for the Neural Control of Movement. 2012 – 2018
- Organizer, Sensorimotor Social, Society for Neuroscience, 2012
- Panel Chair and Organizer, Neural Control of Movement Conference, 2011
- Organizer, 'Friday Fights' Seminar Series, Queen's University. 2006 – 2008

Editorial Board Membership

- Reviewing Editor, eLife, 2020 – Present
- Editor, Neurons, Behavior, Data Analysis, and Theory, 2018 – Present
- Section Editor, European Journal of Neuroscience, 2016 – 2019

Journal Reviewing

- Nature, Nature Neuroscience, Nature Communications, Neuron, eLife, Journal of Neuroscience, Journal of Physiology, Neuroscience and Biobehavioral Reviews, Trends in Neurosciences, Journal of Neurophysiology, European Journal of Neuroscience, Experimental Brain Research, Frontiers, Journal of Motor Behavior, Motor Control, PLOS One

Grant Reviewing

- Chair, BrainsCAN Accelerator Program, 2019 – Present
- Panel Member, New Frontiers in Research Fund, Fall 2019.
- Panel Member, CIHR Foundation Scheme, Fall 2018.
- Panel Member, CIHR Project Scheme, NSA/NSC Committee, Fall 2017.
- Member, CIHR College of Reviewers. 2017 – Present
- External Reviewer, NSERC Discovery Grants, 2015 – Present.
- External Reviewer, US-Israel Binational Science Foundation, 2016.

Society Membership

- American Physiological Society,
- Society for the Neural Control of Movement
- Society for Neuroscience
- Canadian Association for Neuroscience

Academic Defenses

- Margaret Prenger, MSc Defense, Neuroscience, Western, 2020 (Examiner)
- Sebastian Lauzon, MSc Defense, Psychology, Western, 2020 (Examiner)
- Maryam Kadijani, MSc Defense, Neuroscience, Western. 2019 (Examiner)
- Olivia Samotus, Comprehensive, Physiology, Western. 2019 (Examiner)
- Tyler Desplenter, PhD Defense, Electrical Engineering. Western, 2018 (Examiner)
- Jacob Tryon, Comprehensive, Biomedical Engineering. Western, 2018 (Examiner)
- Patrick Gatutsi, MSc Defense, Neuroscience, Western. 2018 (Chair)
- Chloe Cragg, MSc Defense, Psychology, Western. 2018 (Chair)
- James Hughes, PhD Defense, Computer Science, Western. 2018 (Examiner)
- Dickson Wong, Mid-Level Exam, Biophysics, Western. 2018 (Examiner)
- Olivia Stanley, Mid-Level Exam, Biophysics, Western. 2018 (Examiner)
- Jason Chan, PhD Defense, Neuroscience, Western. 2017 (Examiner)
- Carly Jackson, MSc Defense, Physiology, Western. 2017 (Examiner)
- Pavlina Faltynek, MSc Defense, Psychology, Western. 2017 (Chair)
- Raechelle Gibson, PhD Defense, Psychology, Western. 2017 (Examiner)
- Alisha Albert-Green, PhD Defense, Statistics, Western. 2016 (Chair)
- Tyler Peel, PhD Defense, Neuroscience, Western. 2016 (Examiner)

- Nole Hiebert, Comprehensive, Physiology, Western. 2016 (Examiner)
- Heather McGregor, Comprehensive, Neuroscience, Western. 2016 (Chair)
- Brandon Belbeck, MSc Defense, Neuroscience, Western. 2015 (Examiner)

Advisory Committees

- Ladan Shahshahani, MSc, Neuroscience, Western. 2018 – Present
- Diego Piza, MSc, Neuroscience, Western. 2017 – Present
- Sebastian Lauzon, Psychology, Western. 2017 – 2019
- Eva Berlot, PhD, Neuroscience, Western. 2016 – Present
- Jacob Tryon, PhD, Biomedical Engineering, Western. 2016 – 2018
- Daphne Hui, MSc, Physiology and Pharmacology, Western. 2016 – 2018
- Nicola Popp, PhD, Neuroscience, Western. 2016 – Present
- Susan Coltman, PhD, Neuroscience, Western. 2016 – Present
- Becca Kozak, PhD, Neuroscience, Western. 2016 – Present
- Alex Major, PhD, Neuroscience, Western. 2016 – 2019
- Lyndon Duong, MSc, Neuroscience, Western. 2015 – 2017
- Olivia Stanley, PhD, Medical Biophysics, Western. 2015 – Present

Supervision

Scientific Staff

1. Rhonda Kersten, Registered Veterinary Technician, Western. 2016 – Present

Postdoctoral Fellows

1. Jonathan Michaels, Neuroscience, Western. 2019 – Present
Funded by BrainsCAN Postdoctoral Fellowship (Tier 2)
Funded by Banting Postdoctoral Fellowship (CIHR)
2. Sasha Reschechtko, Neuroscience, Western. 2018 – Present
Funded by BrainsCAN Postdoctoral Fellowship (Tier 2)
Funded by CIHR Postdoctoral Fellowship
3. Etay Hay, Neuroscience, Western. 2017 – 2018
Funded by Brain and Mind Institute Postdoctoral Fellowship
Presently faculty at CAMH and University of Toronto
4. Jeffrey Weiler, Neuroscience, Western. 2014 – 2020
Funded by NSERC Postdoctoral Fellowship
Funded by BrainsCAN Postdoctoral Fellowship (Tier 1)
Presently research coordinator St. Joseph's Parkwood Institute, London, Ontario

PhD Students

1. Vaishnavi Sukumar, Neuroscience, Western. 2017 – Present
2. Spencer Arbuckle, Neuroscience, Western. 2016 – Present
Co-supervised with Diedrichsen
Funded by NSERC Doctoral Scholarship (PGS D)
3. Rodrigo Maeda, Psychology, Western. 2015-Present
Funded by Brazilian Science Without Borders Program

Master's Students

1. Megha Verma, Neuroscience, Western. 2018 – Present
Co-supervised with Menon
2. Ehsan Abolhasani, Neuroscience, Western. 2016 – 2018
3. Neda Kordjazi, Neuroscience, Western. 2016 – 2018
Co-supervised with Diedrichsen

Undergraduate Students

1. Cynthiya Gnanaseelan, Physiology and Pharmacology. Summer 2019. NSERC USRA.
2. Jack Zheng, Physiology and Pharmacology. 2019 – 2020 (thesis).
3. Jeremy Arnold, Kinesiology. Summer 2018.
4. Julia Zdybal, Physiology and Pharmacology. 2017 – 2019 (thesis). NSERC USRA.
5. Victoria Lee-Kim, Physiology and Pharmacology. 2017 – Present (thesis)
6. Mohamad Ali, Medical Science, Western. Summer 2017
7. Kayce Zhong, Physiology and Pharmacology, Western. 2016 – 2017 (thesis)
8. Derek Olczak, Neuroscience, Western. 2015 – 2017 (thesis)
9. Weige Zhao, Computer Science, Western. 2015 – 2017 (co-supervisor, thesis)
10. James Saravanamuttu, Physiology and Pharmacology, Western. 2015 – 2016 (thesis)

Contributions to Teaching and Education

Course Development and Instruction

2005 – 2010 Neuroscience Matlab Primer, Centre for Neuroscience Studies, Queen's (~10 hours per year, ~10 students per year)

Course Instruction

2019 Summer School for Primate Cognitive Neuroscience, Bevensen, Germany
Didactic Lecture, 3 hours, ~30 students

2018 Kavli Summer Institute in Cognitive Neuroscience, Lake Tahoe, USA
Didactic Lecture, 3 hours, ~20 students

2017 – Present Psychology 9260, Graduate Seminar, Western
Seminar, ~2 hours per year, ~10 students

2016 – 2017 Biomedical Engineering 9508, Fundamentals of Biomedical Engineering, Western
Didactic Lecture, 2 hours per year, ~30 students.

2015 – Present Physiology 3120, Human Physiology, Western (~12 hours per year, ~400 students)

2015 – Present Neuroscience 9500, Principles of Neuroscience, Western (~4 hours per year, ~25 students)

Lab Instruction

2015 – Present Physiology 3130, Mammalian Physiology Laboratory, Western
Section instructor, ~30 hours per year, ~60 students

Publications

Theses

1. Pruszynski, J.A. (2011). Investigating the sophistication of long-latency stretch responses during postural control of the upper limb. PhD Thesis, Centre for Neuroscience Studies, Queen's University, Kingston, ON.
2. Pruszynski, J.A. (2004) Development of a 2DOF robotic control system for the rehabilitation of gait in stroke patients. Bachelor of Applied Science Honours Thesis, Engineering Department, Simon Fraser University, Burnaby, BC.

Book Chapters

1. Weiler, J., Pruszynski, J.A. (2020, in press) Somatosensory inputs for real-world hand control. Chapter in Gazzaniga (ed.), *The Cognitive Neurosciences*. Book Chapter

Preprints

1. Weiler, J., Gribble, P.L., Pruszynski, J.A. Spinal stretch reflexes support efficient control of reaching. *BioRxiv* (doi:10.1101/2020.01.06.896225).

2. Maeda, R.S., Zdybal, J.M., Gribble, P.L., Pruszynski, J.A. Explicit feedback and instruction do not change shoulder muscle activity reduction after shoulder fixation. *BioRxiv* (doi: 10.1101/2020.03.25.008466)
3. Maeda, R.S., Kersten, R., Pruszynski, J.A. Shared internal models for feedforward and feedback control of arm dynamics in non-human primates. *BioRxiv* (doi: 10.1101/2020.04.05.026757)
4. Jarocka, E., Pruszynski, J.A., Johansson, R.S. Human first-order tactile neurons can resolve spatial details on the scale of single fingerprint ridges. *BioRxiv* (doi: 10.1101/2020.07.03.185777)
5. Ólery, J.C., Hori, Y., Schaeffer, D.J., Gati, J.S., Pruszynski, J.A., Everling, S. Whole brain mapping of somatosensory responses in awake marmosets investigated with ultra-high field fMRI. *BioRxiv* (doi: 10.1101/2020.08.05.238592).

Published Articles

1. Arbuckle, S.A., Weiler, J., Kirk, E.A., Rice, C.L. Schieber, M.H., Pruszynski, J.A., Ejaz, N., Diedrichsen, J. (2020, in press) Structure of population activity in primary motor cortex for single finger flexion and extension. *Journal of Neuroscience*.
2. Hay, E., Pruszynski, J.A. (2020, in press) Synaptic integration across first-order tactile neurons can discriminate edge orientations with high acuity and speed. *PLOS Computational Biology*.
3. Reschechtko, S., Pruszynski, J.A. (2020, in press) Stretch Reflexes. *Current Biology*. Review.
4. Reschechtko, S., Pruszynski, J.A. (2020) Voluntary modification of rapid tactile-motor responses during reaching differs from its visuo-motor counterpart. *Journal of Neurophysiology* 124: 284-294.
5. Maeda, R.S., Gribble, P.L., Pruszynski, J.A. (2020) Learning new feedforward motor commands based on feedback responses. *Current Biology* 30: P1941-1948.
6. Maeda, R.S., Zdybal, J.M., Gribble, P.L., Pruszynski, J.A. (2020) Generalizing movement patterns following shoulder fixation. *Journal of Neurophysiology* 123: 1193-1205.
7. Hernandez-Castillo, C.R., Maeda, R.S., Pruszynski, J.A., Diedrichsen, J. (2020) Sensory information from a slipping object elicits a rapid and automatic shoulder response. *Journal of Neurophysiology* 123: 1103-1112.
8. Pruszynski, J.A., Zylberberg, J. (2019) The language of the brain: real-world neural population codes. *Current Opinion in Neurobiology* 58: 30-36. Review.
9. Reschechtko, S. Johansson, A.S., Pruszynski, J.A. (2019) Maintaining arm control during self-triggered and unpredictable unloading perturbations. *European Journal of Neuroscience* 50: 3531-3543.
10. Weiler, J., Gribble, P.L., Pruszynski, J.A. (2019) Spinal stretch reflexes exploit musculoskeletal redundancy to support postural hand control. *Nature Neuroscience* 22: 529-533.
11. Gu, C., Pruszynski, J.A., Gribble, P.L., Corneil, B.D. (2019) A rapid visuomotor response on the human upper limb is selectively influenced by implicit, but not explicit, motor learning. *Journal of Neurophysiology* 121: 85-95.
12. Arbuckle, S.A., Yokoi, A., Pruszynski, J.A., Diedrichsen, J. (2019) Stability of representational geometry across a wide range of fMRI activity levels. *Neuroimage* 186: 155-163.
13. Maeda, R.S., Cluff, T., Gribble, P.L., Pruszynski, J.A. (2018) Feedforward and feedback control share an internal model of the arm's dynamics. *Journal of Neuroscience* 38: 10505-10514.
14. Olczak, D., Sukumar, V., Pruszynski, J.A. (2018) Edge-orientation processing during active touch. *Journal of Neurophysiology* 120: 2423-2429.
15. Gilbert K.M., Schaeffer D.J., Zeman P., Diedrichsen J., Everling S., Martinez-Trujillo J.C., Pruszynski J.A., Menon R.S. (2018). Concentric radiofrequency arrays to increase the statistical power of resting-state maps in monkeys. *Neuroimage* 178:287-294.
16. Zhao, C.W., Daley, M.J., Pruszynski, J.A. (2018) Neural network models of the tactile system develop first-order units with spatially complex receptive fields. *PLoS One* 13: e0199196.
17. Pruszynski, J.A., Flanagan, J.R., Johansson, R.S. (2018) Fast and accurate edge orientation processing during manipulation. *eLife* 2018;7:e31200.
18. Gu, C., Pruszynski, J.A., Gribble, P.L., Corneil, B.D. (2018). Done in 100 ms: Path-dependent visuomotor transformation in the human upper limb. *Journal of Neurophysiology* 119:1319-1328.

19. Weiler, J., Gribble, P.L., Pruszynski, J.A. (2018) Rapid feedback responses are flexibly coordinated across arm muscles to support goal-directed reaching. *Journal of Neurophysiology* 119: 537-547.
20. Maeda, R.S., Cluff, T., Gribble, P.L., Pruszynski, J.A. (2017) Compensating for intersegmental dynamics across the shoulder, elbow and wrist joints during feedforward and feedback control. *Journal of Neurophysiology* 118:1984-1997.
21. Weiler, J., Saravanamuttu, J., Gribble, P.L., Pruszynski, J.A. (2016) Coordinating long-latency stretch responses across the shoulder, elbow and wrist during goal-directed reaching. *Journal of Neurophysiology* 116: 2236-49.
22. Omrani, M., Murnaghan, C., Pruszynski, J.A., Scott, S.H. (2016) Distributed task-specific processing of somatosensory feedback for voluntary motor control. *eLife* 2016;5:e13141.
23. Pruszynski, J.A., Johansson, R.S., Flanagan, J.R. (2016) A rapid tactile-motor reflex automatically guides reaching toward handheld objects. *Current Biology* 26: 788-792.
24. Hemming, E., Lillicrap, T.P., Omrani, M., Herter, T.M., Pruszynski, J.A., Scott, S.H. (2016) Load classified neurons in primary motor cortex predict muscle activation patterns in a reaching task. *Journal of Neurophysiology* 115: 2021-2031.
25. Weiler, J., Gribble, P.L., Pruszynski, J.A. (2015) Goal-dependent modulation of the long-latency stretch response at the shoulder, elbow and wrist muscles. *Journal of Neurophysiology* 14: 3242-54.
26. Pruszynski, J.A., Johansson, R.S. (2014). Edge-orientation processing in first-order tactile neurons. *Nature Neuroscience* 34: 4608-17.
27. Omrani, M., Pruszynski, J.A., Murnaghan, C.D., Scott, S.H. (2014). Perturbation-evoked responses in primary motor cortex are modulated by behavioral context. *Journal of Neurophysiology* 112: 2985-3000.
28. Pruszynski, J.A. (2014). Primary motor cortex and fast feedback responses to mechanical perturbations: a primer on what we know now and some suggestions on what we should find out next. *Frontier in Integrative Neuroscience* 8:72. Review.
29. Johansson, A.S., Pruszynski, J.A., Edin, B.B., Westberg, K.G. (2014) Biting intentions modulate digastric reflex responses to sudden unloading of the jaw. *Journal of Neurophysiology* 112: 1067-73.
30. Pruszynski, J.A., Omrani, M., Scott, S.H. (2014) Goal-dependent modulation of fast feedback responses in primary motor cortex. *Journal of Neuroscience* 34: 4608-17. Review.
31. Nordmark, P., Pruszynski, J.A., Johansson, R.S. (2012) BOLD responses to tactile stimuli in visual and auditory cortex depend on the frequency content of stimulation. *Journal of Cognitive Neuroscience* 24:2120-34.
32. Pruszynski, J.A., Scott, S.H. (2012) Optimal feedback control and the long-latency stretch response. *Experimental Brain Research* 218:341-59. Review
33. Pruszynski, J.A., Kurtzer, I., Nashed, J.Y., Omrani, M., Brouwer, B., Scott, S.H. (2011) Primary motor cortex underlies multi-joint integration during fast feedback control. *Nature* 478: 387-390.
34. Pruszynski, J.A., Kurtzer, I., Scott, S.H. (2011) Long-latency activity reflects the temporal overlap of two functionally-independent processes. *Journal of Neurophysiology* 106: 449-459.
35. Yang, L., Michaels, J.A., Pruszynski, J.A., Scott, S.H. (2011) Rapid Motor Responses Quickly Integrate Visuospatial Task Constraints. *Experimental Brain Research* 211:231-242.
36. Pruszynski, J.A., King, G.L., Boisse, L., Scott, S.H., Flanagan, J.R., Munoz, D.P. (2010) Stimulus-locked responses on human upper-limb muscles. *European Journal of Neuroscience* 32(6): 1049-1057.
37. Kurtzer, I. Pruszynski, J.A., Scott, S.H. (2010) Long-latency and voluntary responses to an arm displacement can be rapidly attenuated by perturbation offset. *Journal of Neurophysiology* 103: 3195-3204.
38. Pruszynski, J.A., Lillicrap, T.P., Scott, S.H. (2010) Complex spatio-temporal tuning in human upper-limb muscles. *Journal of Neurophysiology* 103: 564-572.
39. Kurtzer, I. Pruszynski, J.A., Scott, S.H. (2009) Long-latency responses during reaching account for the mechanical interaction between the shoulder and elbow joints. *Journal of Neurophysiology* 102: 3004-3015.

40. Pruszynski, J.A., Kurtzer, I. Scott, S.H. (2009) Temporal evolution of 'automatic gain-scaling'. *Journal of Neurophysiology* 102: 992-1003.
41. Pruszynski, J.A., Kurtzer, I. Scott, S.H. (2008) Rapid motor responses are appropriately tuned to the metrics of a visuo spatial task. *Journal of Neurophysiology* 100: 224-238.
42. Kurtzer, I. Pruszynski, J.A., Scott, S.H. (2008) Long-latency reflexes of the human arm reflect an internal model of limb dynamics. *Current Biology* 18: 449-453.
43. Pruszynski, J.A., Coderre, A.M., Lillicrap, T.P., Kurtzer, I. (2007) Temporal encoding of movement in motor cortical neurons. *Journal of Neuroscience* 27: 10076-10077. Review.
44. Kurtzer, I., Pruszynski, J.A., Herter, T.M., Scott, S.H. (2006) Primate upper limb muscles exhibit activity patterns that differ from their anatomical action during a postural task. *Journal of Neurophysiology* 95:493-504.

Commentaries

1. Chambers, C.D., Forstmann, B., Pruszynski J.A. (2019, Commentary). Science in flux: Registered reports and beyond at the *European Journal of Neuroscience*. *European Journal of Neuroscience* 49: 4-5.
2. Chambers, C.D., Forstman B., Pruszynski, J.A. (2017) Registered reports at the *European Journal of Neuroscience*: consolidating and extending peer-reviewed study pre-registration. *European Journal of Neuroscience* 45: 627-8.
3. Pruszynski, J.A., Diedrichsen, J. (2015). Reading the mind to move the body. *Science* 348: 860-861.

Selected Conference Proceedings

1. Reschechtko, S., Pruszynski, J.A. (2020) Voluntary modification of rapid tactile responses during reaching differs from its visual counterpart. Southern Ontario Motor Behavior Symposium, Toronto, ON.
2. Reschechtko, S., Pruszynski, J.A. (2019) Rapid modification of an ongoing reach using touch. 49th Annual Meeting of the Society for Neuroscience, Chicago, IL.
3. Arbuckle, S., Pruszynski, J.A., Diedrichsen, J. (2019) Integration of tactile information from multiple fingers in human primary sensory cortex measured using high-resolution fMRI. 49th Annual Meeting of the Society for Neuroscience, Chicago, IL.
4. Weiler, J., Gribble, P.L., Pruszynski, J.A. (2019) Spinal stretch reflexes in elbow muscles help support efficient reaching. 49th Annual Meeting of the Society for Neuroscience, Chicago, IL.
5. Sukumar, V., Hay, E., Pruszynski, J.A. (2019) Fine orientation processing in the tactile periphery. 49th Annual Meeting of the Society for Neuroscience, Chicago, IL.
6. Maeda, R.S., Zbydal, J., Gribble, P.L., Pruszynski, J.A. (2019) Generalizing movement patterns following shoulder fixation. 49th Annual Meeting of the Society for Neuroscience, Chicago, IL.
7. Hay, E., Pruszynski, J.A. (2019). Fast and accurate edge-orientation processing by synaptic integration across the population of first-order tactile neurons. 13th Annual Meeting of the Canadian Association for Neuroscience, Toronto, Canada.
8. Sukumar, V., Pruszynski, J.A. (2019). Fine orientation processing in the tactile periphery. 13th Annual Meeting of the Canadian Association for Neuroscience, Toronto, Canada.
9. Zbydal, J., Maeda, R.S., Pruszynski, J.A. (2019). Implicit and explicit learning in response to novel arm dynamics. 13th Annual Meeting of the Canadian Association for Neuroscience, Toronto, Canada.
10. Weiler, J., Gribble, P.L., Pruszynski, J.A. (2019). Spinal stretch reflexes efficiently control the hand during movement. 29th Annual Meeting of Neural Control of Movement, Toyama, Japan.
11. Weiler, J., Pruszynski, J.A. (2018) Spinal stretch reflexes show sophisticated tuning that supports hand control. 48th Annual Meeting of the Society for Neuroscience, San Diego, CA.
12. Weiler, J., Gribble, P.L., Pruszynski, J.A. (2018) Spinal stretch reflexes at the elbow integrate information about wrist movement to return the hand to a specific location. 28th Annual Meeting of Neural Control of Movement, Santa Fe, NM.

13. Maeda, R.S., Cluff, T., Gribble, P.L., Pruszynski, J.A. (2018) Learning and transfer of novel intersegmental limb dynamics between feedforward and feedback control. 28th Annual Meeting of Neural Control of Movement, Santa Fe, NM.
14. Hay, E., Pruszynski, J.A. (2017) Data-driven spiking models for computations of first-order tactile neurons in human fingertips. 47th Annual Meeting of the Society for Neuroscience, Washington, DC.
15. Zhao, C.W., Daley, M.J., Pruszynski, J.A. (2017) Neural network models of the tactile system develop first-order units with spatially complex receptive fields. Computational Cognitive Neuroscience 2017. New York, NY. (Refereed)
16. Weiler, J., Gribble, P.L., Pruszynski, J.A. (2017) Short- and long-latency responses at the elbow integrate information about wrist movement to return the hand to a specific location. 27th Annual Meeting of Neural Control of Movement, Dublin, Ireland.
17. Maeda, R.S., Cluff, T., Gribble, P.L., Pruszynski, J.A. (2017) Learning and transfer of novel intersegmental limb dynamics between feedforward and feedback control. 27th Annual Meeting of Neural Control of Movement, Dublin, Ireland.
18. Hernandez-Castillo, C.R., Maeda, R.S., Pruszynski, J.A., Diedrichsen, J. (2017) Sensory information on the finger tips modulates the feedback response of the upper limb during manipulation of a slipping object. 27th Annual Meeting of Neural Control of Movement, Dublin, Ireland.
19. Yokoi, A., Weiler, J., Pruszynski, J.A., Diedrichsen, J. (2017) Pupil dilation during adaptation to a novel dynamic environment. 27th Annual Meeting of Neural Control of Movement, Dublin, Ireland.
20. Zhao, C., Daley, M., Pruszynski, J.A. (2017) Neural network models of the tactile system develop first-order units with complex receptive fields. Cosyne 2017, Salt Lake City, UT. (Refereed)
21. Weiler, J., Saravanamuttu, J., Gribble, P.L., Pruszynski, J.A. (2016) Goal-dependent modulation of the long-latency stretch accounts for the orientation of the arm. 10th Annual Meeting of the Canadian Association of Neuroscience, Toronto, ON.
22. Maeda, R., Cluff, T., Gribble, P.L., Pruszynski, J.A. (2016) Accounting for intersegmental limb dynamics when making single-joint movements. 26th Annual Meeting of Neural Control of Movement, Montego Bay, Jamaica.
23. Weiler, J., Saravanamuttu, J., Gribble, P.L., Pruszynski, J.A. (2016) Coordinating goal-dependent modulation of the long-latency stretch response across muscles. 26th Annual Meeting of Neural Control of Movement, Montego Bay, Jamaica.
24. Weiler, J., Gribble, P.L., Pruszynski, J.A. (2015) Goal-dependent modulation of the long-latency stretch response reflects kinematic redundancy. 45th Annual Meeting of the Society for Neuroscience, Chicago, IL.
25. Weiler, J., Gribble, P.L., Pruszynski, J.A. (2015) Goal-dependent modulation of the long-latency stretch response across upper-limb muscles. 25th Annual Meeting of Neural Control of Movement, Charleston, SC.
26. Pruszynski R.S., Johansson, R.S. (2014) Edge-orientation processing in first-order tactile neurons. 44th Annual Meeting of the Society for Neuroscience, Washington, DC.
27. Johansson, R.S., Pruszynski, J.A. (2013) Precise timing of spikes in human tactile afferent neurons signal geometric features of tactile stimuli. Janelia Farms Conference: Mammalian Circuits Underlying Touch, Ashburn, VA.
28. Omrani, M., Pruszynski, J.A., Scott, S.H. (2013). Temporal evolution of task-dependent signals in sensory and motor cortices. 43rd Annual Meeting of the Society for Neuroscience, San Diego, CA.
29. Pruszynski, J.A., Johansson, R.S. (2012). A simple model of complex processing in human tactile afferent neurons. 42nd Annual Meeting of the Society for Neuroscience, New Orleans, LA.
30. Hemming, E.A., Herter, T.M., Pruszynski, J.A., Omrani, M., Scott, S.H. (2012). Load-classified motor cortical neurons predict muscle activation in a reaching task. 42nd Annual Meeting of the Society for Neuroscience, New Orleans, LA.
31. Pruszynski, J.A., Johansson, R.S. (2012). Information processing in human tactile afferent neurons. 12th Human Frontier Awardees Meeting, Daegu, South Korea.
32. Pruszynski, J.A., Johansson, R.S. (2012). Information processing in human primary tactile afferents. 22nd Annual Meeting of Neural Control of Movement, Venice, Italy.

33. Pruszynski, J.A., Scott, S.H. (2012). Rapid responses in primary motor cortex reflect an internal model of limb dynamics. Swedish Translational Sensorimotor Neuroscience Meeting, Stora Brännbo, Sweden.
34. Pruszynski, J.A., Jenmalm, P., Johansson, R.S. (2011). Information processing in human tactile afferent neurons. 41st Annual Meeting of the Society for Neuroscience, Washington, DC.
35. Nashed, J.Y., Pruszynski, J.A., Omrani, M., Scott, S.H. (2011). Response of primary motor cortex neurons to small perturbations is independent of background load. 41st Annual Meeting of the Society for Neuroscience, Washington, DC.
36. Hemming, E.A., Herter, T.M., Pruszynski, J.A., Omrani, M., Scott, S.H. (2011). Activity of motor cortical neurons in a posture task predicted patterns of EMG activity during reaching. 41st Annual Meeting of the Society for Neuroscience, Washington, DC.
37. Omrani, M., Pruszynski, J.A., Scott, S.H. (2010). Flexible modulation of perturbation evoked activity in primary motor cortex by behavioural context. 21st Annual Meeting of Neural Control of Movement, San Juan, Puerto Rico.
38. Pruszynski, J.A., Scott, S.H. (2010). Rapid responses in motor cortex reflect an internal model of limb dynamics. 40th Annual Meeting of the Society for Neuroscience, San Diego, CA.
39. Omrani, M., Pruszynski, J.A., Scott, S.H. (2010). Flexible modulation of perturbation evoked activity in primary motor cortex. 40th Annual Meeting of the Society for Neuroscience, San Diego, CA.
40. Kurtzer, I., Nashed, J., Pruszynski, J.A., Brouwer, B., Scott, S.H. (2010). TMS evidence that primary motor cortex contributes to the internal model used by long-latency responses. 40th Annual Meeting of the Society for Neuroscience, San Diego, CA.
41. Omrani, M., Pruszynski, J.A., Scott, S.H. (2010). Flexible modulation of perturbation evoked activity in primary motor cortex. 32nd International Symposium, Groupe de recherche sur le système nerveux central, Montreal, QC.
42. Pruszynski, J.A., Omrani, M., Scott, S.H. (2009). Modulation of perturbation responses by spatial task-demands: motor, premotor and somatosensory cortex. 39th Annual Meeting of the Society for Neuroscience, Chicago, IL.
43. Kurtzer, I., Pruszynski, J.A., Brouwer, B., Scott, S.H. (2009). Postural activity and motor evoked potentials of upper-limb muscles express similar tuning to multi-joint loads. 39th Annual Meeting of the Society for Neuroscience, Chicago, IL.
44. Omrani, M., Pruszynski, J.A., Scott, S.H. (2009). Changes in rapid neural responses in sensory and motor cortex to mechanical perturbations while engaged and not engaged in a motor task. 39th Annual Meeting of the Society for Neuroscience, Chicago, IL.
45. Pruszynski, J.A., Kurtzer, I., Scott, S.H. (2009). Dissecting the long-latency reflex reveals two components: one fixed and one flexible. Computational Principles of Sensorimotor Learning, Kloster Irsee, Germany.
46. Pruszynski, J.A., Kurtzer, I., Scott, S.H. (2008). Task-dependency of rapid motor responses reflects the sum of fixed and flexible processes. 38th Annual Meeting of the Society for Neuroscience, Washington, DC.
47. Kurtzer, I., Pruszynski, J.A., Scott, S.H. (2008). Smart feedback corrections during reaching movements incorporate knowledge of limb dynamics. 38th Annual Meeting of the Society for Neuroscience, Washington, DC.
48. Pruszynski, J.A., Kurtzer, I., Scott, S.H. (2008) The long-latency reflex is composed of two components: one fixed and one flexible. 4th Centre for Neuroscience Research Day, Kingston, ON.
49. Kurtzer, I., Pruszynski, J.A., Scott, S.H. (2008) Feedback control of the upper-limb is fast, smart and powerful. 4th Centre for Neuroscience Research Day, Kingston, ON.
50. Pruszynski, J.A., Kurtzer, I., Scott, S.H. (2008). Dissecting the long-latency reflex reveals two components: one fixed and one flexible. 2nd Annual Meeting of the Canadian Association of Neuroscience, Montreal, QC.
51. Lillicrap, T.P., Pruszynski, J.A., Scott, S.H. (2008). Pathlets in upper-limb muscles? 2nd Annual Meeting of the Canadian Association of Neuroscience, Montreal, QC.

52. Kurtzer, I., Pruszynski, J.A., Scott, S.H. (2008). Evolving motor corrections can be rapidly suppressed by a common spinal mechanism. 2nd Annual Meeting of the Canadian Association of Neuroscience, Montreal, QC.
53. Pruszynski, J.A., Scott, S.H. (2007). Are motor cortical 'reflexes' appropriately modulated by spatial goals? 37th Annual Meeting of the Society for Neuroscience, San Diego, CA.
54. Kurtzer, I., Pruszynski, J.A., Scott, S.H. (2007). Rapid voluntary and reflex responses of the upper-limb are sensitive to perturbation duration. 37th Annual Meeting of the Society for Neuroscience, San Diego, CA.
55. Pruszynski, J.A., Kurtzer, I., Scott, S.H. (2007). Rapid EMG and cortical responses to mechanical perturbations are modified by visuo-spatial goals. 1st Annual Meeting of the Canadian Association of Neuroscience, Toronto, ON.
56. Kurtzer, I., Pruszynski, J.A., Scott, S.H. (2007). Long-latency reflexes of the upper-limb may reflect and internal model of limb dynamics. Progress in Motor Control VI, Santos, Brazil.
57. Kurtzer, I., Pruszynski, J.A., Scott, S.H. (2007). Long-latency reflexes of shoulder monoarticulars reflect both shoulder and elbow motion. 1st Annual Meeting of the Canadian Association of Neuroscience, Toronto, ON.
58. Pruszynski, J.A., Kurtzer, I., Scott, S.H. (2007). Examining the flexibility of upper-limb reflexes via a novel visuo-spatial task. 17th Annual Meeting of Neural Control of Movement, Seville, Spain.
59. Kurtzer, I., Pruszynski, J.A., Scott, S.H. (2007). Heteronymous long-latency reflexes from single-joint arm muscles. 17th Annual Meeting of Neural Control of Movement, Seville, Spain.
60. Pruszynski, J.A., Kurtzer, I., Scott, S.H. (2007). Upper-limb reflex responses are modified to suit visuo-spatial task demands. Canadian Physiological Society Winter Meeting, Beaupre, QC.
61. Kurtzer, I., Pruszynski, J.A., Scott, S.H. (2007). Reflexes of the upper-limb reflex multi-joint information. Canadian Physiological Society Winter Meeting, Beaupre, PQ.
62. King, G.L., Pruszynski, J.A., Scott, S.H., Munoz, D.P. (2007). Transient visual responses on upper-limb musculature that precede reaching. Canadian Physiological Society Winter Meeting, Beaupre, PQ.
63. Pruszynski, J.A., Kurtzer, I., Scott, S.H. (2006). Flexibility of human upper-limb reflexes in a visuo-spatial task. 36th Annual Meeting of the Society for Neuroscience, Atlanta, GA.
64. King, G.L., Pruszynski, J.A., Munoz, D.P., Scott, S.H. (2006) Muscles that 'see': upper-limb EMG responses are time-locked to onset of visual stimuli. 36th Annual Meeting of the Society for Neuroscience, Atlanta, GA.
65. Pruszynski, J.A., Kurtzer, I., Scott, S.H. (2006). Flexibility of human upper-limb reflexes in a visuo-spatial task. 2nd Centre for Neuroscience Research Day, Kingston, ON.
66. King, G.L., Pruszynski, J.A., Munoz, D.P., Scott, S.H. (2006) Early time-locked EMG responses to visual stimuli in the upper limb. 2nd Centre for Neuroscience Research Day, Kingston, ON.
67. Pruszynski, J.A., Scott, S.H. (2006). Dissociation between a muscles function and anatomical action are predicted by optimizing global features of activity. 9th Annual Meeting for Health Sciences Research Trainees, Kingston, ON.
68. Lillicrap, T.P., Pruszynski, J.A., Scott, S.H. (2006) Information theoretic techniques for model selection applied to single cell data. XXVII International Symposium on Computational Neuroscience, Montreal, PQ.
69. Pruszynski, J.A., Kurtzer, I., Scott, S.H. (2005) Task-dependent variability of upper limb postural control. 35th Annual Meeting of the Society for Neuroscience, Washington, DC.
70. Kurtzer, I., Pruszynski, J.A., Scott, S.H. (2005) Short and long latency responses to independently imposed elbow and shoulder loads. 35th Annual Meeting of the Society for Neuroscience, Washington, DC.
71. Pruszynski, J.A., Kurtzer, I., Herter, T.M., Scott, S.H. (2005) Optimization models accurately predict a dissociation between a muscle's function and anatomical direction. 1st Centre for Neuroscience Research Day, Kingston, ON.
72. Wireless Medical Devices (2004). Wireless Electromyography. Western Engineering Competition and Conference, Winnipeg, MB.

73. Wireless Medical Devices (2004). Practical Wireless Electromyography. Canadian Engineering Competition and Conference, Hamilton, ON.
74. Wireless Medical Devices (2004). Wireless Electromyography. Advanced Systems Institute Exchange, Vancouver, BC.
75. Wireless Medical Devices (2003). Wireless Electromyography. Simon Fraser University Center for Systems Science Poster Day, Burnaby, BC

Speaking Engagements

1. Emory-Simons Symposium on Motor Control, Online, June, 2020.
2. Houk Lecture in Motor Control, Northwestern University, Chicago, IL. Mar 2020.
3. Simons Foundation, New York, NY. Jan 2020.
4. Mini-symposium, Society for Neuroscience, Chicago, IL. Oct 2019.
5. Motor Control and Motor Learning, Chicago, IL. October 2019 (Keynote).
6. Neuroscience, Baylor College of Medicine, Houston, TX. Sept 2019.
7. Canadian Physiological Society, Toronto, ON. May 2019. (Keynote)
8. Neural Control of Movement, Toyama, Japan. April 2019. (Moderator)
9. Action Club, Pennsylvania State University, State College, PA. March 2019.
10. Department of Biomedical Engineering, Emory University, Atlanta, GA. January 2019.
11. Institute of Cognitive Neurosciences, University College, London, UK. Dec 2018.
12. Neurosciences Program, University of Ottawa, Ottawa, ON. November 2018.
13. Neural Prosthetics Systems Group, Stanford University, Palo Alto, CA. Sept 2018.
14. Symposium in Honor of Bror Alstermark, Vindeln, Sweden. June 2018.
15. Mechanisms of Dextrous Manipulation, Janelia Campus, Ashburn, VA. May 2018.
16. Neural Control of Movement, Santa Fe, NM. May 2018 (Keynote).
17. Cosyne Meeting (Workshop), Breckenridge, CO. March 2018.
18. Biomedical Engineering, University of Pittsburgh, Pittsburgh, PA. Feb 2018.
19. Department of Neuroscience, Universite de Montreal, Montreal, QC. Jan 2018.
20. Program in Neuroscience, University of Toronto. Toronto, ON. April 2017.
21. Networking Panel, London Health Science Research Day. London, ON. March 2017.
22. Western Talks Science, Neuroscience Undergrad Society, London, ON. Feb 2017.
23. Cosyne Meeting (Workshop), Snowbird, UT. Feb 2017.
24. Barrels Meeting, Society for Neuroscience Satellite, Los Angeles, CA. Nov. 2016.
25. Department of Psychology, McMaster University, Hamilton, ON. Sep 2016.
26. International Society for Electromyography and Kinesiology, Chicago, IL. July 2016.
27. Symposium, Canadian Association for Neuroscience, Toronto, ON. May 2016.
28. Mini-symposium, Society for Neuroscience, Chicago, IL. Oct 2015.
29. Swedish Society for Sculpture, Stockholm, Sweden. Aug 2015. (Keynote)
30. Japanese Society for Neuroscience, Kobe, Japan. July 2015.
31. Tactile Processing Symposium, World Haptics Meeting, Chicago, IL. June 2015.
32. Schulich School of Medicine & Dentistry, London, ON. April 2015.
33. Centre for Neuroscience Studies, Queen's University, Kingston, ON. Feb 2015.
34. Neuroscience Program, University of Waterloo, Waterloo, ON. Jan 2015.
35. Robarts Research Institute, Western University, London, ON. Nov 2014.
36. Medical Biochemistry and Biophysics, Umeå University, Umeå, Sweden. Oct 2014.
37. Human Frontier Awardees Meeting, Lugano, Switzerland. July 2014.
38. Neuroscience, Catholic University of Louvain, Brussels, Belgium. May 2014.
39. Medical Neuroscience, Dalhousie University, Halifax, NS. June 2013.
40. Physiology/Pharmacology, Western University, London, ON. June 2013.
41. Human Physiology, University of Oregon, Eugene, OR. Jan 2013.
42. 4th Neural Network Meeting, Umeå University, Umeå, Sweden. Jan 2013.

43. Organismal Biology and Anatomy, University of Chicago, Chicago, IL. Nov 2012.
44. Tactile Research Group Meeting, Minneapolis, MN. Nov. 2012.
45. 5th Annual Meeting of the Bioengineering Society, Oxford, UK. Sept 2012.
46. Centre for Neuroscience Studies, Queen's University, Kingston, ON. Aug 2012.
47. Graduate School of Education, Tokyo University, Tokyo, Japan. July 2012.
48. National Institute of Neuroscience, Tokyo, Japan. July 2012.
49. Biosciences and Informatics, Keio University, Yokohama, Japan. July 2012.
50. Anatomy and Cell Biology, Western University, London, ON. May 2012.
51. 22nd Annual Meeting of Neural Control of Movement, Venice, Italy. April 2012.
52. Dept. of Integrative Medical Biology, Umeå University, Umeå, Sweden. Oct 2011.
53. Sensorimotor Control Group, University of Cambridge, Cambridge, UK. Oct 2011.
54. Neural Control of Movement, San Juan, Puerto Rico. April 2011.
55. Integrative Medical Biology, Umeå University, Umeå, Sweden. April 2011.
56. Houk Symposium. Northwestern University, Chicago, IL. Oct 2009.
57. Tactile Perception and Learning Lab, SISSA, Trieste, Italy. Sept 2009.
58. Integrative Medical Biology, Umeå University, Umeå, Sweden. Sept 2009.
59. Sensory Motor Performance Program, RIC, Chicago, IL. June 2009
60. Physiology, Northwestern University, Chicago, IL. June 2009.
61. Group on Action/Perception, Western University, London, ON. March 2009.
62. Friday Fights Seminar Series, Queen's University, Kingston, ON. Jan 2009.
63. Sensorimotor Control Group, University of Cambridge, Cambridge, UK. July 2008.
64. Motor Control Laboratory, University of Bangor, Bangor, Wales. July 2008.
65. 18th Annual Meeting of Neural Control of Movement, Ft. Myers, FL. May 2008.
66. Retreat of the CIHR Group in Action and Perception, Ingersoll, ON. April 2008.
67. NeuroMath Group Seminar, University of Montreal, Montreal, QC. Jan 2008.
68. Centre for Neuroscience Studies, Queen's University, Kingston, ON. Oct 2007.
69. CIHR Group Friday Fights Seminar, Queen's University, Kingston, ON. April 2007.
70. School of Engineering Science, Simon Fraser University, Burnaby, BC. June 2004.
71. Faculty of Applied Science, Simon Fraser University, Burnaby, BC. April 2003.