

Catherine Stinson

Rotman Institute of Philosophy, University of Western Ontario
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AOS Philosophy of Science, Philosophy of Neuroscience, Philosophy of Psychiatry
AOC Philosophy of Mind, Philosophy of Biology, Logic

EDUCATION

PhD: University of Pittsburgh, History & Philosophy of Science 2013
Dissertation: “Cognitive Mechanisms and Computational Models: Explanation in Cognitive Neuroscience”
Committee: Kenneth Schaffner (co-advisor), Peter Machamer (co-advisor), Jim Bogen, Floh Thiels
Graduate Training Certificate: Center for the Neural Basis of Cognition

MSc: University of Toronto, Computer Science 2002
Thesis: “Adaptive Information Filtering with Labeled and Unlabeled Data”

BSc: University of Toronto, Cognitive Science & Artificial Intelligence 1999

ACADEMIC APPOINTMENTS

Postdoctoral Scholar in Philosophy of Neuroscience 2015 – present
Rotman Institute of Philosophy, University of Western Ontario

Assistant Professor (Fixed term) 2014
Philosophy Department, Ryerson University
(Parental leave: 07/2014 – 06/2015)

Postdoctoral Fellow 2012 – 2013
Centre for Integrative Neuroscience, University of Tübingen

PUBLICATION LIST

Peer Reviewed Publications

1. Stinson, C. (forthcoming) Explanation and Connectionist Models. In *The Routledge Handbook of the Computational Mind*, Eds. M. Colombo and M. Sprevak.
2. Stinson, C. (2017) The Absent Body in Psychiatric Diagnosis, Treatment, and Research. *Synthese*. DOI: 10.1007/s11229-017-1507-8 link
3. Stinson, C. & Sullivan, J. (2017) Mechanistic Explanation in Neuroscience. In *The Routledge Handbook of Mechanisms and Mechanical Philosophy*, Eds. S. Glennan and P. Illari. 375–388.
4. Stinson, C. (2017) Back to the Cradle: Mechanism Schemata from Piaget to DNA. In *Eppur si muove: Doing History and Philosophy of Science with Peter Machamer*, Eds. M. Abrams, Z. Biener, U. Feest, J. Sullivan. Springer. 183–194.
5. Stinson, C. (2016) Mechanisms in Psychology: Ripping Nature at its Seams. *Synthese*. 193(5), 1585–1614. link
6. Piryankova, I.V., Wong, H.Y., Linkenauger, S., Stinson, C., Longo, M., Bühlhoff, H.H., Mohler, B.J. (2014) Owing an Overweight or Underweight Body: Distinguishing the Physical, Experienced and Virtual Body. *PLOS One* 9(8): e103428. link

7. Stinson, C. (2009) Searching for The Source of Executive Attention. *PSYCHE* 15(1): 137-154. (With commentary by Andy Clark.) [link](#)

Other Publications

1. (March 24, 2018) Deep Learning: Why It's Time for Artificial Intelligence to Get Philosophical *The Globe and Mail*. [link](#)
2. (November 9, 2017) Are Women Especially Well-Suited to Doing Science? *Rotman Institute of Philosophy blog*. [link](#)
3. (March 20, 2017) Reflections from the Social Impact of Medicalizing Psychiatry Workshop. *Rotman Institute of Philosophy blog*. [link](#)
4. (May 20, 2014) On Philipp Koralus, "The Erotetic Theory of Attention." *Brains blog symposium for Mind & Language*. [link](#)

Under Review

- What Artificial Neurons Tell us about Real Brains (at *Philosophical Psychology*)

In Preparation

- Bridging the Gap between Model Organism and Target System
- Integrating Cognitive and Neural Models (invited for an issue of *Synthese*)
- A Self-Induced Tactile Rubber-Hand Illusion

PRESENTATIONS

- "A Feeling for the Algorithm"
Values in Medicine, Science, and Technology, Richardson, Texas May 2018
- "Abstract Mechanisms and Causal Powers" (with B. Hennig)
Canadian Society for History & Philosophy of Science, Toronto May 2017
- "The Body in Mental Illness"
Neuroscience and Society Lecture Series, London ON October 2016
- "Mechanistic and Mathematical Explanation Unified"
Mechanistic Integration and Unification in Cognitive Science, Warsaw June 2016
- "Grounding Inferences from Model Organisms"
First Principles in Science: Their Epistemic Status and Justification, MCMP Munich June 2016
- "The Absent Body in Psychiatric Classification, Diagnosis, and Treatment"
Canadian Society for History & Philosophy of Science, Calgary May 2016
- "Are 'Computational Experiments' Experiments?"
Munich Center for Mathematical Philosophy, University of Munich (invited) May 2014
Philosophy Department, York University (invited) April 2014
- "Interoception, Eating Disorders, and the Rubber-Hand Illusion"
Body Perception: Clinical, Experimental, and Philosophical Approaches, Tübingen November 2013
- "Computational Models as Experimental Systems"
Society for Philosophy of Science in Practice, Toronto June 2013

“Abstract Models, Generic Mechanisms” <i>Models & Mechanisms</i> , Tilburg	December 2012
“Is Explanation in Psychology Mechanistic?” <i>Explaining Mental Phenomena</i> , University of Tübingen	July 2012
“Computational Models as Mechanistic Explanations” <i>Models and Simulations 5</i> , Helsinki	June 2012
<i>Computability in Europe: Turing Centenary Conference</i> , Cambridge	June 2012
“Epistemology of Computational Modeling in the Social Sciences” Institute of Social Sciences, University of Kiel (invited)	May 2012
“What Mechanisms Can Do (for You)” Centre for Integrative Neuroscience, University of Tübingen (invited)	December 2011
“Aristotle’s Argument against Functionalism” (with B. Hennig) <i>International Society for History of Philosophy of Science</i> , Budapest	June 2010
“The Role of Computational Models in Cognitive Neuroscience” <i>Epistemology of Modeling and Simulation</i> , Pittsburgh	April 2011
<i>European Conference on Computing and Philosophy</i> , Barcelona	July 2009
<i>Association for the Scientific Study of Consciousness</i> , Berlin (poster)	June 2009
“Searching for The Source of Executive Attention” <i>Consciousness in a Natural and Cultural Context</i> , Edinburgh (invited)	June 2008
“Locating Executive Attention: Explanation and Levels of Description” <i>Graduate Conference in Philosophy, Psychology, Neuroscience and Biology</i> , Edinburgh (poster)	June 2008
“Attention, Volition, and the Ghost in the Machine” <i>European Society for Philosophy and Psychology</i> , Geneva	July 2007

AWARDS, GRANTS & SCHOLARSHIPS

- For *The Social Impact of Medicalizing Psychiatry* conference (with V. Arsiradam, D. Oswick): 2016
School of Graduate Studies Grant, Minorities and Philosophy Grant, Rotman Institute of Philosophy Award, Research Western Award, and Society of Graduate Students Grant
- Dean’s Tuition Scholarship, University of Pittsburgh 2013
- Best Student Paper Award, International Association for Computing and Philosophy 2011
- Pre-doctoral Fellowship: Max Planck Institute for History of Science, Berlin 2010
- Wesley Salmon Grant, for archival research 2009, 2011
- Shortlist, ESF Consciousness in a Natural and Cultural Context Essay Competition 2008
- Graduate Scholarship, University of Pittsburgh 2005, 2007, 2009

SCIENTIFIC RESEARCH

Harris Lab: Centre for Vision Research, York University Participating in lab meetings about multisensory perception, including body perception	2018
CoNCH Lab: Brain and Mind Institute, Western University Neuropsychological testing of participants with focal epilepsy	2016

Perception & Action in Virtual Environments: Max Planck Institute for Biological Cybernetics	2012 – 2013
Full-body and tactile extensions to the Rubber-Hand Illusion	
Machine Learning Lab: University of Toronto	2002 – 2003
Bayesian learning algorithms for letter recognition and text classification	
Artificial Intelligence Lab: University of Toronto	1998 – 1999
Computational vision for gesture recognition in a communications robot	
Student Researcher: National Research Council of Canada	1998
Artificial neural network algorithms to aid airplane wing design	

OUTREACH

<i>Public Consultation</i> : Socio-economic Inclusion Team, Policy Horizons Canada	2017
• Participated in the Canada Beyond 150 consultation process about the future of Canadians' health.	
<i>Public Health Outreach</i> : The Stop Community Centre	2017
• Contributed to the design and implementation of an organization-wide program evaluation.	
<i>Policy Consulting</i> : Adopt4life, Ontario Adoptive Parents Association	2017
• Wrote a policy brief aimed at ensuring continuity of services for children with disabilities.	

PROFESSIONAL SERVICE

Lead Organizer:

Symposium: <i>From Naturalism to Metaphysics</i> , Canadian Society for History & Philosophy of Science	2017
Conference: <i>The Social Impact of Medicalizing Psychiatry</i> , Rotman Institute of Philosophy	2017
Workshop: <i>Body Perception: Clinical, Experimental, and Philosophical Approaches</i> , Tübingen	2013
Seminar Series: <i>Body Perception</i> , Centre for Integrative Neuroscience, Tübingen	2012 – 2013

Committees:

Program Committee: <i>Lab Associates Graduate Training</i> , Rotman Institute of Philosophy	2016 – 2018
Outreach Committee: <i>The Brain Boom Public Event series</i> , Rotman Institute of Philosophy	2017
Organizing Committee: <i>Explaining Mental Phenomena Workshop</i> , Tübingen	2012
Program Committee: <i>Models & Mechanisms Conference</i> , Tilburg	2012
Program Committee: <i>Annual Lecture Series</i> , Pittsburgh Center for Philosophy of Science	2009

Reviewer:

Synthese, Philosophy of Science, Philosophical Studies, Journal of Cognitive Science

Session Chair:

<i>Canadian Society for History and Philosophy of Science</i> , Toronto	2017
<i>Philosophy of Science Association</i> , Atlanta	2016
<i>Canadian Society for History and Philosophy of Science</i> , Calgary	2016
<i>Rethinking the Taxonomy of Psychology</i> , London, ON	2016
<i>Philosophy of Science Association</i> , Chicago	2014
<i>Models & Mechanisms</i> , Tilburg	2012
<i>Current Topics in the Philosophy of the Human Sciences</i> , Berlin	2010

Memberships:

Philosophy of Science Association, Canadian Society for History & Philosophy of Science, Canadian Society for Women in Philosophy, International Philosophy of Medicine Roundtable, Kids Brain Health Network

LANGUAGES

English, French, German

REFERENCES

Michael Anderson <mande54@uwo.ca>

Canada Research Chair in Philosophy of Science, Department of Philosophy
University of Western Ontario

Tim Bayne <timothy.bayne@monash.edu>

Professor, Department of Philosophy
Monash University

Elizabeth Irvine <irvinee@cardiff.ac.uk>

Lecturer, Department of Philosophy
Cardiff University

Ana Perez-Leroux <at.perez.leroux@utoronto.ca> (teaching reference)

Professor, Department of Linguistics, Spanish & Portuguese Languages
Director, Cognitive Science Program
University of Toronto

Kenneth Schaffner <kfs@pitt.edu>

Distinguished University Professor, Department of History & Philosophy of Science (Emeritus)
University of Pittsburgh

Jacqueline Sullivan <jsulli29@uwo.ca>

Associate Professor, Department of Philosophy
University of Western Ontario