ANDREW RICHMOND

arichmo8@uwo.ca ◇ andrewrichmond.net ◇ 226-224-0934

AREAS OF SPECIALIZATION

Philosophy of Cognitive Science	Neuroscience, Psychology, AI
Philosophy of Mind	Computation, Representation, Teleology, Naturalism
Philosophy of Science	Scientific Explanation, Metaphysics of Science

AREAS OF COMPETENCE

Language, Metaphysics, Epistemology, Philosophy of Humor, Philosophy of Psychiatry, Kant

EMPLOYMENT

Rotman Institute, University of Western Ontario   *2022-present*
Postdoctoral Associate, EMRG Lab

EDUCATION

PhD, Columbia University, Department of Philosophy   *2022*

BA, University of Toronto, Philosophy   *2016*

Certifications
Neuromatch, Computational Neuroscience   *2024*
Columbia, Teaching Development Program (Advanced Track)   *2022*

DISSERTATION

Methods in Mind: Explanation in Cognitive Science
Committee: John Morrison (advisor), Jenann Ismael, Chris Peacocke, Frances Egan, Rosa Cao

My dissertation developed a pragmatic and psychological approach to understanding scientific explanation, and used that approach to argue for reforms to both scientific and philosophical methods in mind/brain research. In particular, while most philosophers study specialized scientific concepts by investigating the kinds or categories they refer to, I argued that we must focus on the pragmatic role those concepts play in the scientific process: what they help scientists *do*, and how.

PUBLICATIONS (superscript indicates authorship order)

Richmond, A. (forthcoming). **What really lives in the swamp? Kinds and the illustration of scientific reasoning**. *Philosophy of Science*.

Baker, B.,[1] Lange, R.,[1] Richmond, A.,[1] Kriegeskorte, N., Cao, R., Pitkow, X., Schwartz, O., & Achille, A. (forthcoming). **Use and usability: Three levels of neural representation.** *Neurons, Behavior, Data, and Theory.*

Richmond, A. (2025). **How computation explains.** *Mind & Language*, 40(1).

Richmond, A. (2025). **What is a theory of neural representation for?** *Synthese*, 205(14).

Commentaries
Richmond, A.,[1] Bowen, J.G., Kayssi, L.F., Küçük, K., Ravikumar, V., Şahin, M.Y., & Anderson, M.L. (2024). **Imposing vs finding unity: Mechanisms in embodied cognitive neuroscience.** *Cognitive Neuroscience*, 15(34), 122123.

Richmond, A. (2023). **Commentary: Investigating the concept of representation in the neural and psychological sciences.** *Frontiers in Psychology*, 14:1259808.

PAPERS UNDER REVIEW OR IN PREPARATION

Under review: **Computational externalism**

In preparation: **Representation in context: neuroscience and explainable AI**

In preparation: **Experimental philosophy of science: Beyond taxonomy**

Under commission, *Philosophy Compass*: **Pragmatist philosophy of cognitive science**

GRANTS, AWARDS, FELLOWSHIPS

$26,453, <u>PI</u>: *The Next Generation of Ethical Artificial Intelligence* *2025*
  Connection Grant, Social Science and Humanities Research Council ($17,635)
  Matching funds from other sources ($8,818)
$20,000, <u>Collaborator</u>: *AI in the Public Sector: Responsible AI in Education* *2025*
  Think Tank Award, Rotman Institute
$20,000, <u>Collaborator</u>: *Computational Epistemology* *2024*
  Think Tank Award, Rotman Institute
Teaching Scholars Fellowship, Columbia University *2021–2022*
  Created and taught a course on Philosophy and AI
Senior Lead Teaching Fellowship, Columbia Center for Teaching and Learning *2021–2022*
  Supervised 7 teaching fellows; created and ran a two-week pedagogy workshop
David H. Siff Philosophy of Science Award *2019, 2020, 2021*
  Annual prize for best graduate student paper in philosophy of science
Lead Teaching Fellowship, Columbia Center for Teaching and Learning *2019–2020*
  Created and ran pedagogy workshops; served as liaison for the Center
$500, Teaching Development Grant, Columbia Center for Teaching and Learning *2020*
Benjamin Wolstein Fellowship *2017–2018*
Columbia Dean's Fellowship *2016–2021*

PRESENTATIONS (* = invited)

"Humility and the Evisceration of Cognitive Science"
Humility in Inquiry Seminar, Arizona State University *upcoming, 2025*

"Experimental Philosophy of Science: Beyond Categories"
Society for Philosophy and Psychology *upcoming, 2025*
CSHPS, York University *2023*

"Ethical Innovation in Neurotech"
* Symposium on Brain-Driven Entrepreneurship, WNYLE Institute *upcoming, 2025*

"Teaching Bots, Assessing Bots, Grading Bots"
* Critical Issues in GenAI in Education, Western University *upcoming, 2025*

"Representation in Context: Neuroscience and Explainable AI"
The Southern Society for Philosophy and Psychology *2025*

"The Psychology of Scientific Concepts"
* Brain & Mind Institute, Western University *2025*
The Southern Society for Philosophy and Psychology *2025*
* Concepts & Cognition Lab, Princeton University *2023*

"Ignoring the Evidence: A Guide for RECS" (with Giovanni Rolla)
Philosophy and Neuroscience at the Gulf *2024*

"Kinds and the Illustration of Scientific Reasoning"
CPA, York University   *2023*

"How Computation Explains"
Neuromatch 5.0   *2022*
12th Principia International Symposium: Models and Modeling in the Sciences, USFC   *2021*

"What Is a Theory of Neural Representation For?"
Central APA   *2022*
Neuromatch 4.0   *2021*
Columbia-Mount Sinai Brain Symposium   *2021*
Young Scholars Pragmatism Conference, Cambridge University   *2021*
Philosophy and Neuroscience at the Gulf IV   *2021*
5th International Conference on Interactivity, Language & Cognition, University of Warsaw   *2021*
Canadian Society for the History and Philosophy of Science   *2021*
Society for the Advancement of American Philosophy   *2021*

"Computational Externalism"
Information and Computing in Nature, Polish Academy of Arts and Sciences   *2022*
Rudolf Carnap Lectures, Ruhr-Universität Bochum   *2019*

"What Makes Representations 'Useful'?" (*with Alessandro Achille, Ben Baker, Rosa Cao, Nikolaus Kriegeskorte, Richard Lange, Xaq Pitkow, Nick Shea, Odelia Schwartz*)
Cognitive Computational Neuroscience   *2021*

"Naturalistic Philosophy of Mind: Taking Scientific Explanation Seriously"
Sciences of the Origin   *2021*

"Complexity and Computational Explanation"
Complexity in the Humanities and Sciences, University of Memphis   *2019*

Invited Commentaries
"The Overly Modular Mind", Eastern APA   *2022*
"Computation in Context", CU-NYU Graduate Conference   *2021*
"Communication about Death and Loss", Lighthearted Philosophers Society   *2018*

Other Conferences, Workshops, Etc.
Participant (refereed), Beyond the Ivory Tower, Northeastern University   *2024*
Chair, Eastern APA, "A Husserlian/Fodorian Approach to Deep Learning"   *2022*
Chair, Eastern APA, Book symposium on Sebastian Watzl's *Structuring Mind*   *2021*
Participant (refereed), Mentoring the Mentors, APA   *2021*
Participant (refereed), Philosophy and Physical Computing, Virginia Tech   *2019*
Participant (refereed), Center for Vision Research Workshop, York University   *2019*
Participant (refereed), Norwegian Summer Institute on Language and Mind, University of Oslo *2018*

TEACHING EXPERIENCE (at Columbia University unless otherwise noted)

As Primary Instructor
Lab Associates Basic Training (Graduate Intro to Cognitive Psych), *Rotman Institute*   *2025*
Philosophy and Artificial Intelligence, PHIL 3870   *2022*
Ethics, PHIL 3701   *2022*
Metaphysics, PHIL 3601   *2020*

As TA
Symbolic Logic, PHIL 3413   *2021*
Philosophy of Cognitive Science, PHIL 2655   *2021*
Company Failure, PS 5510   *2020*

Philosophy of Psychology, PHIL 3654	*2020*
Ethics, PHIL 3701	*2019*
Kant, PHIL 3251	*2019*
Metaphysics, PHIL 3601	*2018*
Introduction to Logic, PHIL 1401	*2018*
Philosophy of Language and Mind, PHIL 3252	*2017*
Tutor, Philosophy Student Resource Center, *University of Lethbridge*	*2011–2012*
Grader, Symbolic Logic I, LOGIC 2003, *University of Lethbridge*	*2011*

Individual Supervision

Paola Fabian, Research Assistant: "Addiction and the Evolution of Free Will"	*2022*
Paola Fabian, Research Assistant: "Neuroethics: Research into Consent and Addiction"	*2021*
Hannah de Jesus, Research Assistant: "Neuroscience and Moral Responsibility"	*2021*
Ryan Carrasco, Research Assistant: "The Neuroscience of Free Will"	*2020*

SERVICE AND OUTREACH

Rotman Institute of Philosophy Advisory Committee	*2023-2025*
Rotman Institute of Philosophy Directorship Search Committee	*2024*
Podcast interview on the Jack Roycroft-Sherry Podcast	*2024*
Podcast interview on Merging Minds	*2024*
Podcast interview on Dialexicon	*2023*
Mentor with BRAINYAC	*2020–2022*
Volunteer with Rethink	*2020–2022*
Various service for Columbia Minorities and Philosophy: mentor, panelist, etc.	*2016–2022*
Advisor for *The Ethics of Metaverse*, a student documentary series	*2021*
Organizer for PopRocks Philosophy of Psychology Workshop	*2019–2021*
Co-organizer of the Columbia AAPT Teaching Workshop	*2020*
Teacher with Corrupt the Youth	*2018–2019*
Co-organizer of the Columbia-NYU Graduate Conference	*2017*
Organizer of the Columbia Graduate Student Workshop	*2017*

Peer Reviewer/Referee

The European Journal of Neuroscience, *Synthese*	*2025*
Journal of Philosophy, *Society for Philosophy & Psychology*, *Synthese*	*2024*
Bloomsbury Press	*2023*
Philosophical Topics	*2022*
Columbia-NYU Graduate Conference	*2018–2022*

REFERENCES

John Morrison
Department of Philosophy
Barnard College, Columbia University
jmorriso@barnard.edu

Frances Egan
Department of Philosophy
Rutgers University
fegan@philosophy.rutgers.edu

Rosa Cao
Department of Philosophy
Stanford University
rosacao@stanford.edu

Michael Anderson
Department of Philosophy
Brain and Mind Institute
Western University
mande54@uwo.ca

Teaching Reference

Patricia Kitcher
Department of Philosophy
Columbia University
pk206@columbia.edu