

Sofia Rappe

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AREAS OF RESEARCH

AOS Philosophy of Mind and Cognition, Philosophy of Cognitive Sciences, Philosophy of Language
AOC Philosophy of Science (general), Epistemology

EDUCATION

- 10/2019 - 10/2022 **Ph.D. in Neurophilosophy**
Ludwig-Maximilians-Universität München (LMU Munich), Germany
Faculty of Philosophy, Philosophy of Science and the Study of Religion
& Graduate School of Systemic Neurosciences
Dissertation: *Mental states and cognitive mechanisms in predictive agents*
Advisory Committee: Ophelia Deroy, Stephan Hartmann, Sam Wilkinson
- 9/2017 - 11/2018 **M.Sc. in Mind, Language, and Embodied Cognition (Distinction)**
The University of Edinburgh, UK
Dissertation: *Now, Never, or Coming Soon? Prediction and Efficient Language Processing*
Supervisor: Andy Clark
- 9/2013 - 06/2017 **Hons B.Sc. in Linguistics and Mathematics (Distinction)**
Minor in Semiotics and Communication Studies
Victoria College, University of Toronto, Canada
Capstone project supervisor (cognitive science): John Vervaeke

PROFESSIONAL EXPERIENCE

- 10/2022 – present **Neuromind Postdoctoral Fellow**
Chair of Philosophy of Language and Cognition, Ruhr University of Bochum
- 10/2019 – 10/2022 **Instructor & Teaching Assistant**
Chair of Philosophy of Mind, LMU Munich
- 10/2020 – 08/2021 **Research Intern**
Departments of Psychology and Neurology, LMU Munich
Principal Investigator: Dr. Paul Taylor
- 09/2018 – 08/2019 **Academic Editor**
Editing Press Inc., Online
- 01/2017 – 08/2018 **Laboratory Manager**
Consciousness and Wisdom Studies Lab (CWSL), University of Toronto
Laboratory Director: Dr. John Vervaeke, Principal Investigator: Dr. Michel Ferrari
- 08/2015 – 01/2017 **(Senior) Research Assistant**
CWSL, University of Toronto
- 04/2016 – 08/2016 **Research Assistant**
Technologies for Aging Gracefully Lab, Toronto
Laboratory Director (Emeritus): Dr. Ronald Baecker

TEACHING

- SoSe 2021, SoSe 2022 **Co-instructor & Teaching Assistant**, “Neurophilosophy”
Lecture for MSc Neuroscience and Neuro-Cognitive
Psychology students, LMU Munich
- WiSe 2019 - SoSe 2022 **Instructor & Course Coordinator**, “Minds & Methods”
BA and MA Philosophy thesis-writing seminar, LMU Munich
* Since WiSe 2019 - instructor for the academic writing module
* Since SoSe 2022 - instructor & course coordinator for the entire course
- WiSe 2021-22 **Guest Lecturer**, “The Predictive Brain”
Advanced MA Philosophy seminar, LMU Munich
- WiSe 2020-21 **Co-instructor & Course Coordinator**, “Representations in Cognitive Science”
Advanced MA Philosophy seminar, LMU Munich
- SoSe 2020 **Co-instructor & Teaching Assistant**, “Knowing that we know: Key issues on
reflection & confidence”, Advanced MA Philosophy seminar, LMU Munich
- WiSe 2019-20 **Instructor**, “Readings in Predictive Processing”
Advanced MA Philosophy journal club, LMU Munich
- WiSe 2019-20 **Co-instructor**, “Cybernetics & Computation: The Promise of Artificial Intelligence”
Advanced BA and MA Philosophy seminar, LMU Munich
- 2019 **Instructor**, “Introduction to Predictive Processing”
Lectures series for the Cognitive Science and AI Student Association,
University of Toronto

PUBLICATIONS

Peer-reviewed articles

- Deroy, O. & **Rappe, S.** (2022). The clear and not so clear signatures of perceptual reality in the Bayesian brain. *Consciousness and Cognition*, 103, 103379. doi: 110.1016/j.concog.2022.103379.
- Rappe, S.** (2019). Now, never, or coming soon? Prediction and efficient language processing. *Pragmatics & Cognition*, 26(2-3), 357-385. doi: 10.1075/pc.19001.rap.
- Rappe, S.** (2022). Predictive minds can think: Addressing generality and surface compositionality of thought. *Synthese*, 200(1), 1-22. doi: 10.1007/s11229-022-03502-7.
- Rappe, S.** & Wilkinson S. (2022). Counterfactuals and psychosis: Adding complexity to predictive processing accounts. *Philosophical Psychology*. doi: 10.1080/09515089.2022.2054789.

Book reviews

- Rappe, S.** (2020). Brain-Mind [Review of the book *Brain-Mind: From Neurons to Consciousness and Creativity*, by P. Thagard]. *Metapsychology Online Reviews*.

In preparation

- Rappe, S.**, Loev S. & Deroy, O. Confidence within its proper bounds.
- Rappe, S.** Perception, imagination, and counterfactual cognition in the predictive mind.

AWARDS, FUNDING, AND FELLOWSHIPS

- 2021, 2022 **LMU Mentoring Program of Faculty 10 Bursaries (for Female Academics in Philosophy)**
Ludwig-Maximilian-Universität München
- FROM 2019 **Neurophilosophy Doctoral Scholarship**
Graduate School of Systemic Neurosciences & Munich Center for Neurosciences,
Ludwig-Maximilian-Universität München
- 2019 **Edinburgh Global Research Scholarship**
The University of Edinburgh (declined to attend LMU Munich)
- 2019 **College of Arts, Humanities and Social Science Research Award**
The University of Edinburgh (declined to attend LMU Munich)
- 2019 **Modelling Consciousness Workshop Travel Grant**
- 2018 **Highly Commended Dissertation Award**
School of Philosophy, Psychology & Language Sciences, The University of Edinburgh
- 2013 - 2014 **Vic One Member: Arthur Schawlow Stream for Physical and Mathematical Sciences**
Victoria College, University of Toronto (competitive admission)

SELECTED TALKS

- 11/2022 “Thinking and language in predictive processing”
Bochum Language Colloquium, Ruhr University Bochum, Germany
- 09/2022 “Counterfactuals and psychosis: a discussion and implications for clinical practice” (invited)
ECHR ANZ, Online
- 07/2022 “Counterfactuals and psychosis: Adding complexity to predictive processing accounts”
ESPP & SPP 2022 Joint Conference, University of Milan, Italy
- 10/2021 “Counterfactuals and psychosis” (invited)
Institute of Philosophy, School of Advanced Study
at the University of London, UK
- 06/2021 “Figuring out what is real in the predictive mind”
Metacognition: new developments and challenges, School of Advanced Study
at the University of London, UK
- 07/2020 “Thinking about Thought (and Predictive Processing)”
Third Early Career Research Workshop, Ruhr-Universität Bochum, Germany
- 07/2019 “Now, Never, or Coming Soon? Prediction and Efficient Language Processing” (invited)
Neurology Research Association, York University, Canada
- 03/2019 “Predictive Processing and Conscious Thought”
Modelling Consciousness: A Workshop on Formal Approaches to the Mind-Body
Problem, Dorfgastein, Austria
- 06/2018 “Predictive Language Processing and the Now-or-Never Bottleneck” (poster)
The 63rd Language @ Edinburgh Lunch, The University of Edinburgh, UK
- 01/2018 “Trouble with Metaphor”
Mind & Cognition Workshop, The University of Edinburgh, UK
- 03/2017 “On Metaphor”
Confluence: Merging Streams, University of Toronto, Canada

PROFESSIONAL SERVICE & PUBLIC OUTREACH

- 2022 **Organizer**, LMU Early Career Workshop in Philosophy of Mind, Germany
- 2020 - 2022 **Reviewer**, *Erkenntnis & Synthese*
- 2020 **Assistant Organizer**, Graduate School of Systemic Neurosciences Retreat, Germany
- 2020 **Guest Speaker**, NeuroCamp: Munich Neuroscience Summer School, Germany
- 2018 **Assistant Organizer**, The University of Edinburgh Online Pedagogy Conference, UK
- 2016 - 2017 **Student Advisory Team Member**, Enterprise Applications & Solutions Integration Team, University of Toronto, Canada
- 2014 **Assistant Organizer**, University of Toronto Interdisciplinary Symposium on the Mind: Mind and Religion, Canada
- 2014 **Demonstrator**, Science Rendezvous Toronto, Canada

LANGUAGES AND TECHNICAL SKILLS

- LANGUAGES: Russian (native), English (native-like), German (A2)
- TECHNICAL SKILLS: Python (lower intermediate, basic familiarity with NLTK, machine learning packages), R (basic), Matlab/Octave (basic machine learning), LaTeX, Google Workspace, Microsoft Office, Slack, Discord, Trello, GitHub
- + Experience administering (mobile) EEG, TMS, sMRI