Curriculum Vitae

Cameron Beebe
cameron.beebe@campus.lmu.de

Research Center for Neurophilosophy
and Ethics of Neurosciences
Geschwister-Scholl-Platz 1
Postfach 72
80539 Mnchen

1 Education

Ph.D. candidate in Systemic Neuroscience – Neurophilosophy.
From: Graduate School of Systemic Neurosciences, LMU Munich, 2015–2018.
Dissertation: *Knowledge Transfer in Models, Computation, and Cognition*
Committee: Stephan Hartmann, Christian Leibold, Ulrike Hahn, Gregory Wheeler

M.A. in Logic and Philosophy of Science.
From: Munich Center for Mathematical Philosophy, LMU Munich, January 15th, 2015.
Thesis: *Fluid Mechanical Models in Physical and Computational Contexts* (1,3)
Advisors: Karim Thébault and Michael Cuffaro

B.A. (with Honors) in Philosophy.
From: Montana State University, May 4, 2012.
Honors Thesis: *Uncertainty in Quantum Theory*
Advisor: Prasanta Bandyopadhyay

2 Research Specialization and Areas of Competence

- Philosophy of Science
    - Philosophy of Physics
    - Philosophy of Biology
- Philosophy of Computation/Cognitive Systems
    - Machine Epistemology and AI
    - Transfer Learning and Analogical Reasoning
    - Unconventional Computation (analog, quantum, neuromorphic)
    - Bayesian Rationality
- Logic
    - Proof Theory and Applied Logics

3   Publications

Model-Based Computation. Natural Computing, 2017. (Invited extension of LNCS version)

3.1   Proceedings

Sequent Calculus Representations for Quantum Circuits. Proceedings of the 7th International Workshop on Physics and Computation, Manchester, 2016. Electronic Proceedings in Theoretical Computer Science, volume 214, p. 3-15.

Model-based computation. Proceedings of Unconventional and Natural Computation, Manchester, 2016. Lecture Notes in Computer Science, volume 9726, p. 75-86.

3.2   In Preparation

Bayesian Confirmation from Analog Models. With Roland Poellinger. [Under Review]

Normativity in Computational Level Theories. With Ulrike Hahn.

Quantum Judgements in Context Should be POVMs, Not Projections [Under Review]

General System Theory Explanations in Science

Machine Analogies and Transfer Learning

Analog Entanglement in Quantum Hydrodynamic Systems? [Expanding on M.A. Thesis]

On the Emergence of Robust Atoms from a Background Medium [Expanding on M.A. Thesis]

4   Teaching and Organizational Experience

Summer Semester 2017.
    - Reviewer and organization assistant for Causation, Explanation, and Conditionals 2017.
    - Volunteer Assistant at ECAP9 Munich.

Summer Semester 2016.
    - Tutor for Philosophy of Science bachelor students at LMU.
    - Program Committee member for 2nd Munich Graduate Workshop in Mathematical Philosophy at MCMP.
    - Tutor for graduate students of Neurophilosophy.

Summer Semester 2015.
    - T.A. for Thébault's course on Analog Models in the Physical and Social Sciences.

December 2013–September 2015.
    - Employed as an Assistant at the Munich Center for Mathematical Philosophy.

September 2011–May 2012.
    - Employed by Montana State University as a T.A. and exam grader for entry-level philosophy courses.

5   Technical Skills

- Publication: Familiarity with LaTeX and BibTeX.

- Programming: In various projects and courses I have utilized Python, Octave, Matlab, Netlogo, Circos (Data Visualization), and HTML.

- Data Entry and Database Management (Open Access LMU)

6   Grants and Awards

October 2015–September 2018. Graduate School of Systemic Neuroscience Ph.D. research stipend.

October 2012–September 2013. Humboldt Foundation stipend recipient for the Logic and Philosophy of Science program, through the MCMP. (€12.000)

2008–2012. Received an Achievement Award from Montana State University based on an ACT score (29). Credit on tuition. ($30,000)

7   Language

- Native English

- German (B2)

8 References

Prof. Dr. Stephan Hartmann
Chair for Philosophy of Science,
Head of the Munich Center for Mathematical Philosophy,
Ludwig-Maximilians-Universität München

Phone: +49 (0) 89 / 2180 - 3320
Email: S.Hartmann@lmu.de
Website: StephanHartmann.org

Prof. Dr. Ulrike Hahn
Professor,
Department of Psychological Sciences,
Birkbeck University of London

Phone: +44 (0) 20 / 7631 - 6379
Email: u.hahn@bbk.ac.uk
Website: Profile Page

Dr. Karim Thébault
Senior Lecturer in Philosophy of Science,
University of Bristol

Phone: +49 (0) 89 / 2180 - 3470
Email: karim.thebault@bristol.ac.uk
Website: www.karimthebault.org