

CURRICULUM VITAE

Philipp Haueis
 Abteilung Philosophie
 Universität Bielefeld
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 33501 Bielefeld
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EMPLOYMENT

09/2019–02/2020	Visiting Scholar	Center for Philosophy of Science, University of Pittsburgh
10/2018–present	Assistant Professor <i>Akademischer Rat auf Zeit</i>	Department of Philosophy, Bielefeld University
06/2018–09/2018	Visiting Scholar	Institute of Philosophy, Free University Berlin
09/2012–12/2017	Guest Scientist	Research Group Neuroanatomy and Connectivity, Max Planck Institute Human Cognitive & Brain Sciences, Leipzig, Germany
12/2010–12/2012	Research Assistant	Cluster of Excellence “Languages of Emotion” Free University Berlin

EDUCATION

10/2014–03/2018	PhD Student	Berlin School of Mind and Brain, Department of Philosophy, Otto-von-Guericke University Magdeburg Title: “Meeting the Brain on its own Terms. Exploratory Concept Formation and Noncognitive Functions in Neuroscience” Supervisors: Holger Lyre, Henrik Walter Grade: Summa cum laude
10/2015–11/2015 05/2017–06/2017	Visiting Scholar	Philosophy-Neuroscience-Psychology Program Washington University St. Louis Supervisor: Carl Craver
01/2013–06/2013	Visiting Scholar	Science in Society Program, Wesleyan University Department of Philosophy, UBC Vancouver Supervisors: Joseph Rouse, Christopher Mole
10/2010–11/2012	Master of Arts	Philosophy, Humboldt-University Berlin
10/2007–08/2010	Bachelor of Arts	Philosophy (major) & economics (minor) Humboldt-University Berlin

AREAS OF SPECIALIZATION

PHILOSOPHY OF NEUROSCIENCE: Epistemology of Neuroscientific Experiments, Functional Analysis and Mechanisms, Organizational Units of the Brain, Conceptual and Tool Development, Multiscale Modeling

GENERAL PHILOSOPHY OF SCIENCE: Development, Structure and Normative Evaluation of Scientific Concepts, Epistemology of Experiment, Context of Discovery and Context of Pursuit, Methodology in the Sciences and Humanities

SCIENCE AND SOCIETY: Critical Neuroscience, Use of Climate Knowledge for Policymaking, Social Implications of Information and Communication Technologies

AREAS OF COMPETENCE

PHILOSOPHY OF LANGUAGE: Theories of Concepts, Conceptual Engineering

PHILOSOPHY OF MIND: Animal Cognition, Situated Cognition, Phenomenology

PHILOSOPHY OF CLIMATE SCIENCE: Downscaling Climate Data for Policy Planning

PUBLICATIONS

PEER-REVIEWED JOURNAL ARTICLES

Haueis, P. & Kästner, L. (2022) Mechanistic Inquiry and Scientific Pursuit: The Case of Visual Processing. *Studies in History and Philosophy of Science* 93, 123-135. DOI: [10.1016/j.shpsa.2022.03.007](https://doi.org/10.1016/j.shpsa.2022.03.007)

Haueis, P. (2022). Descriptive Multiscale Modeling in Data-Driven Neuroscience. *Synthese* 200,129. DOI: [10.1007/s11229-022-03551-y](https://doi.org/10.1007/s11229-022-03551-y)

Haueis, P. & Slaby, J. (2022). Humanities as Conceptual Practices: The Formation and Development of High-Impact Concepts in Philosophy and Beyond. *Metaphilosophy*. DOI: [10.1111/meta.12551](https://doi.org/10.1111/meta.12551)

Haueis, P. (2021a). A Generalized Patchwork Approach to Scientific Concepts. *The British Journal for the Philosophy of Science*. DOI: [10.1086/716179](https://doi.org/10.1086/716179)

Haueis, P. (2021b). The Death of the Cortical Column? Patchwork Structure and Conceptual Retirement in Neuroscientific Practice. *Studies in History and Philosophy of Science Part A* 85, 101–113. DOI: [10.1016/j.shpsa.2020.09.010](https://doi.org/10.1016/j.shpsa.2020.09.010)

- Haueis, P.** (2021c). Multiscale Modeling of Cortical Gradients: The Role of Mesoscale Circuits for Linking Macro- and Microscale Gradients of Cortical Organization and Hierarchical Information Processing. *NeuroImage* 232. DOI: [10.1016/j.neuroimage.2021.117846](https://doi.org/10.1016/j.neuroimage.2021.117846)
- Kästner, L. & **Haueis, P.** (2019). Discovering Patterns: On the Norms of Mechanistic Inquiry. *Erkenntnis* 86, 1635–1660. DOI: [10.1007/s10670-019-00174-7](https://doi.org/10.1007/s10670-019-00174-7)
- Haueis, P.** (2018). Beyond Cognitive Myopia: A Patchwork Approach to the Concept of Neural Function. *Synthese* 195(12), 5373–5402. DOI: [10.1007/s11229-018-01991-z](https://doi.org/10.1007/s11229-018-01991-z)
- Mendes, N. Oligschläger, S. Lauckner, M. Golchert, J. Huntenburg, J., Falkiewicz, M., Ellamil, M. Krause, S. Baczkowski, B. Cozatl, R. Osoianu, A. Kumral, D. Pool, J. Goltz, L. Dreyer, M. **Haueis, P.** Jost, R. Kramarenko, Y. Engen, H. Ohrnberger, K. Gorgolewski, K. Farrugia, N. Babayan, A. Reiter, A. Schaare, L. Reinelt, J., Röbbing, J. Uhlig, M., Erbey, M. Gaebler, M. Smallwood, J., Villringer, A. & Margulies, D. (2019). A Functional Connectome Phenotyping Dataset Including Cognitive State and Personality Measures. *Scientific Data*. DOI: [10.1038/sdata.2018.307](https://doi.org/10.1038/sdata.2018.307)
- Haueis, P.** (2016). The Life of the Cortical Column. Opening the Domain of Functional Architecture of the Cortex (1955–1981). *History and Philosophy of the Life Sciences* 38(3) DOI: [10.1007/s40656-016-0103-4](https://doi.org/10.1007/s40656-016-0103-4) .
- Haueis, P.** (2014). Meeting the Brain on its own Terms. *Frontiers in Human Neuroscience* 8(815), DOI: [10.3389/fnhum.2014.00815](https://doi.org/10.3389/fnhum.2014.00815)
- Haueis, P.** (2013). Vagueness and Mechanistic Explanation in Neuroscience. *Croatian Journal of Philosophy* 38, 251–275.
- Haueis, P.** (2012). The Fuzzy Brain. Vagueness and Mapping Connectivity in the Human Cerebral Cortex. *Frontiers in Neuroanatomy* 6(37), DOI: [10.3389/fnana.2012.00037](https://doi.org/10.3389/fnana.2012.00037) .
- Haueis, P.** (2012). Apollonian Scientia Sexualis and Dionysian Ars Erotica? On the Relation between Michel Foucault's 'History of Sexuality' and Friedrich Nietzsche's 'Birth of Tragedy'. *Journal of Nietzsche Studies* 43(2), 260–282.

BOOK CHAPTERS

Peer-reviewed chapters

- Burnston, D. & **Haueis, P.** (2021). Evolving Concepts of “Hierarchy” in Systems Neuroscience. In M. Viola and F. Calzavarini (eds.). *Neural Mechanisms: New Challenges in the Philosophy of Neuroscience*. Berlin: Springer (pp. 113–141).

Haueis, P. & Slaby J. (2017). Connectomes as Constitutively Epistemic Objects. Critical Perspectives on Modelling in Current Neuroanatomy. In T. Mahfoud, S. McLean and N. Rose (eds.). *Progress in Brain Research Vol 233: The Making and Use of Animal Models in Neuroscience and Psychiatry*. Amsterdam: Academic Press (pp. 149–177).

Invited chapters

Burns, R., Margulies, D. & **Haueis, P.** (2019). Of Regions and Networks: Neuroimaging Approaches to Mapping Brain Organization. In: Thibault & A. Raz (ed.), *Casting Light on the Dark Side of Brain Imaging*. Amsterdam: Elsevier (pp. 135-138). <https://doi.org/10.1016/B978-0-12-816179-1.00023-2>

Haueis, P. & Slaby, J. (2015). Brain in the Shell. Assessing the Stakes and the Transformative Potential of the Human Brain Project. In J. de Vos and E. Pluth (eds.), *Neuroscience and Critique*. London: Routledge (pp. 117–140).

Slaby, J., **Haueis, P.** & Choudhury, S. (2012). Neuroscience as Applied Hermeneutics: Towards a Critical Neuroscience of Political Theory, In: F. Vander Valk (ed.), *Essays on Neuroscience and Political Theory: Thinking the Body Politic*. New York: Routledge (pp. 50–73).

IN PREPARATION

Haueis, P. (under review). Exploratory Concept Formation and Tool Development in Neuroscience. *Philosophy of Science*.

Haueis, P. & Novick, R. (under review). Conceptual Patchworks and Conceptual Housekeeping. To appear in Arabatzis, T. and Bloch-Mullins, C. (eds.) *Concepts, Induction, and the Growth of Scientific Knowledge*. Pittsburgh: University of Pittsburgh Press.

AWARDS AND SCHOLARSHIPS (SELECTION)

09/2018	Best PhD thesis	Faculty of the Human Sciences Otto-von Guericke University Magdeburg
10/2017–03/2018	Tie-over stipend	Berlin School of Mind and Brain
10/2014–09/2017	PhD scholarship	Studienstiftung des deutschen Volkes
01/2013–06/2013	Research stay after the exam	Studienstiftung des deutschen Volkes Wesleyan University & UBC Vancouver
10/2010 – 11/2012	Scholarship	Studienstiftung des deutschen Volkes

RESEARCH GRANTS

04/2021	International conference grant, German Research Council	
	Project name:	Workshop “The structure and development of concepts in the life sciences” (Feb 7-9 2022)
	Grant sum:	10,600€
08/2018	Research Stipend German Research Council	Center for Philosophy of Science University of Pittsburgh
	Project name:	Generalizing patchwork approaches to scientific concepts
	Grant sum:	38,400€
10/2017–07/2018	King’s Together Award	King’s College London
	Project name:	Towards Neuro-Social Science: Exploring Novel Methods for Multidisciplinary Collaboration
	Partner:	Tara Mahfoud, Sam McLean, Kris de Meyer, Nikolas Rose, Johanna Pokorny, Robin Murray, John Strang
	Grant sum:	19,800£
04/2016	Independent Social Research Foundation	Free University Berlin
	Project name:	Workshop “Vital Brains: The Making and Use of Animal Models in Neuroscience and Psychiatry”
	Partner:	Tara Mahfoud, Sam McLean, and Jan Slaby
	Grant sum:	4950£

PRESENTATIONS

PEER-REVIEWED CONFERENCE PRESENTATIONS (SELECTION)

2021	“Exploratory Concept Formation and the Norms of Description in Neuroscientific Discovery”	27 th Meeting, Philosophy of Science Association November 11–13 2021, Baltimore, USA
	“Patchwork Concepts and Operationalism” (with Aaron Novick)	EPSA Conference, September 15-18 2021, University of Turin, Italy

“Norms of Conceptual Development in the Life Sciences” (Panel with Corinne Bloch-Mullins and Uljana Feest)

International Society for History, Philosophy and Social Studies of Biology (ISHPSSB)
Conference Online, July 13-21 2021, Cold Spring Harbor Laboratory

2020 “Exploratory concept formation and tool development in neuroscience: the case of bug detectors and the default mode of brain function”

NeuroTech Conference, January 24–25 2020, Center for Philosophy of Science, University of Pittsburgh

2019 “The concept of hierarchy and the problem of scales in ecosystem modeling”

International Society for History, Philosophy and Social Studies of Biology (ISHPSSB) Conference, July 7–13 2019, University of Oslo, Norway

“Towards a Generalized Patchwork Approach to Scientific Concepts”

3rd Conference of the Gesellschaft für Wissenschaftsphilosophie, February 25–27 2019, Cologne, Germany

2018 “Circuit Switching, Gain Control and the Problem of Multifunctionality” (Poster)

26th Meeting, Philosophy of Science Association
November 1–4 2018, Seattle, USA

“A Patchwork Approach to Endogenous Brain Activity in Resting State Neuroimaging”

7th Biennial Conference of the Society for Philosophy of Science in Practice
June 30–July 2 2018, Gent University, Belgium

“The Multiple Senses of “Hierarchy” in Neuroscience” (with Daniel Burnston).

AISC Midterm Conference
July 25–27 2018, University of Genoa, Italy

2017 “Beyond Cognitive Myopia: A Patchwork Approach to Neural Circuit Function”

ISHPSSB conference, July 16–21 2017, University of São Paulo, Brazil

2017 “Mesoscale Concepts and Cortical Function: A Patchwork Approach” (Poster)

23rd Meeting of the Organization for Human Brain Mapping (OHBM), June 25–29 2017, Vancouver, Canada

“Noncognitive Circuit Functions”

44th Philosophy of Science Conference, April 24–28 2017, Inter-University Centre Dubrovnik, Croatia

- 2016 “What the Brain does by Itself: The Role of Endogenous Activity in Resting State Functional Connectivity Studies” (Poster)
25th Meeting, Philosophy of Science Association
November 3–5 2016, Atlanta, USA
- “Human and Nonhuman Intentionality in the Anthropocene” (Poster)
Workshop “Rational Animals?”
October 4–6 2016, Ruhr-University Bochum, Germany
- “Patterns, Mechanisms and the Ontic/Epistemic Distinction” (with Lena Kästner)
6th Biennial SPSP Meeting
June 17–19, 2016, Rowan University, Glassboro, USA
- “What are Organizing Principles in Contemporary Brain Mapping?”
2nd Meeting of the German Society for Philosophy of
Science (GWP) March 8–11 2016, Heinrich Heine
University Düsseldorf, Germany
- 2015 “Is the Cortical Column an Organizational Unit of the Cortex?” (Poster)
45th Meeting of the Society for Neuroscience
October 16–21, 2015, Chicago, USA
- “Are Mechanisms the Laws of Neuroscience?”
9th Conference of the German Society for Analytic
Philosophy September 14–17 2015, University of
Osnabrück, Germany
- 2014 “The Virtues of Exploration: A Philosophical Framework for Resting State
Functional Connectivity and Connectomics Approaches” (Poster)
4th Resting State/Brain Connectivity Conference,
September 11–13 2014, MIT, USA
- 2013 “Meeting the Brain on its own Terms” (Panel with Jan Slaby and Daniel Margulies)
4th SPSP Meeting June 26–29 2013, Victoria College,
University of Toronto, Kanada
- 2012 “Does the Brain have Precise Cortical Areas? Questioning Brainhood from a
Practical Perspective
“Persons and their Brains” Conference, July 11–14
2012, St. Anne’s College, Oxford, United Kingdom

OTHER PRESENTATIONS (SELECTION)

- 2021 “What Do We Know About Neural Function At the Mesoscale of Neural Circuits?”
Invited Lecture (German Language), May 31, 2021
Studium Generale, Johannes-Gutenberg University Mainz
- 2020 “A Generalized Patchwork Approach to Scientific Concepts”
Lunchtime Talk, February 11 2020
Center for Philosophy of Science, University of Pittsburgh
- 2017 “A Patchwork Approach to Endogenous Brain Activity in Resting State fMRI Studies”
Institute Colloquium, September 18 2017
MPI Cognitive and Brain Sciences Leipzig
- “Gain Modification and Gain Control: Two Functional Roles of Gamma Oscillations”
March 23 2017
Ernst-Strüngmann Institute Frankfurt
- 2015 “Untangling Neural Thickets: Connectomes as Constitutively Epistemic Objects”
ÉNP Seminar “New Frontiers”, July 21 2015
Institut du Cerveau et de la Moëlle Épineière Paris
- 2015 “Do Canonical Microcircuits Implement Predictive Coding?”
Graduate workshop, Berlin School of Mind and Brain and LMU Munich, March 11-14 2015, Venice, Italy
- “Embedded Philosophy of Neuroscience as a Critical Form of Interdisciplinarity”
Workshop: “Brains in the Making”, March 19–20 2015, Durham University, United Kingdom
- 2013 “Neuroscientific Experimentation at the Mesoscale: The Case of the Cortical Column” (Poster)
Workshop “Experimentation in Neuroscience”
November 22–23 2013, Center for Philosophy of Science, Pittsburgh, USA

ORGANIZED CONFERENCES AND WORKSHOPS

- February 7–9 2022 **Workshop** “The Structure and Development of Concepts in the Life Sciences”
Location: Centre for Interdisciplinary Studies, Bielefeld University

	Partner:	Co-organizers: Morgan Thompson, Marie Kaiser; Speakers: Uljana Feest, Rose Novick, Jo E. Wolff, Ingo Brigandt, Corinne Bloch-Mullins, Catarina Dutilh Novaes,
	Link	https://lifescienceconcepts.weebly.com/
May 25, 2021	Film Screening	Virtual Film Screening of <i>In Silico</i>
	Partner:	Johanna Kißler, Martin Wegrzyn (Psychology, Bielefeld U.), Noah Hutton (director)
	Link:	https://uni-bielefeld.de/fakultaeten/philosophie/ereignisse/in-silico-screening/index.xml?lang=de
July 10 2019	Conference Panel	“Concepts and Understanding in Ecology”
	Location:	ISHPSSB Conference, University of Oslo
	Partner:	Rose Trappes (co-organizer), speakers: James Justus, Soazig LeBihan, Samantha Wakil
	Link	https://ishpssb2019.teknismuseum.no/program/detailed-program
July 11–12 2018	Workshop	“The Mercurial Life of Drugs”
	Location:	King’s College London
	Partner:	Tara Mahfoud, Kris DeMeyer, Johanna Pokorny
	Link:	http://somatosphere.net/2018/10/the-mercurial-life-of-drugs.html
October 30 2017	Workshop	“Towards Neuro-Social Science: Exploring novel methods for multidisciplinary collaboration”
	Location:	King’s College London
	Partner:	Tara Mahfoud, Kris DeMeyer, Johanna Pokorny
April 7–8 2016	Workshop	“Vital Brains: The Making and Use of Brain Models in Neuroscience”
	Location:	Free University Berlin
	Partner:	Tara Mahfoud, Sam McLean und Jan Slaby
	Link:	http://www.hsozkult.de/event/id/termine-30600
March 9–11 2016	Book Symposium	“Articulating the World: Intentionality – Language – Nature”
	Location:	Free University Berlin
	Partner:	Jan Slaby, Jörg Volbers

Link: de.scribd.com/document/291252434/Workshop-Programme-Articulating-The-World

December 3–4 2015 **Workshop**

„Patterns in Science”

Location: Berlin School of Mind and Brain

Partner: Lena Kästner

Link: mind-and-brain.de/postdoctoral-program/scientific-events/archive/carl-craver

TEACHING

AS INSTRUCTOR

Winter term 2021	Seminar	Philosophical Writing: Science and Responsibility (in German)
Summer term 2021	Seminar	Experiment and Decomposition in the Life Sciences
	Seminar	Holism in Language, Mind and Science (in German)
Winter term 2020/21	Graduate Seminar	Discovery, Pursuit & Justification in Science (with Lena Kästner)
	Introductory Seminar	Climate Research & Climate Crisis
Summer term 2020	Graduate Seminar	Brain Doping, Genetic Corn, Mass Extinction and Pandemics: Societal Issues in the Life Sciences
	Graduate Seminar	Theories of the Brain: from Freud to Friston (in German)
Summer term 2019	Seminar	The empirical investigation of the mind: cognition and consciousness (in German)
	Seminar	Interpretations Everywhere? On the Relation between the Sciences and the Humanities
Winter term 2018/19	Seminar	Philosophical Writing: Embodiment and Extended Mind
	Graduate Seminar	Concepts and Conceptual Analysis: New Perspectives from Experimental Philosophy, Philosophy of Language and Philosophy of Science (in German)
	Location:	Bielefeld University
Winter term 2015/16 Summer term 2016	Lecture + Seminar	“Cognitive Neuroscience I + II” (in German)
	Location:	Sigmund Freud University Berlin

AS RESEARCH ASSISTANT (ACTIVE CO-TEACHING)

February 16–20 2015	Graduate Seminar	Philosophy of Neuroscience: The Connectome
	Instructor:	Jan Slaby
	Location:	Free University Berlin
June 24 –27 2013	Graduate Seminar	Critical Neuroscience
	Instructors:	Suparna Choudhury, Ian Gold, Laurence Kirmayer, Amir Raz, Jan Slaby, Allan Young
	Location:	McGill University Montréal
Summer term 2012	Graduate Seminar	Science and Critique (German)
February 21–23 2012	Graduate Seminar	Current methodological and philosophical problems in the neurosciences (German)
Winter term 2012	Graduate Seminar	The Philosophy of Ian Hacking
	Instructor:	Jan Slaby
	Location:	Free University Berlin

PROFESSIONAL TRAINING

May 2021 Anti-Racism Training by Phoenix e.V. for faculty members at
Bielefeld University

PROFESSIONAL SERVICE

Reviewer for Biology & Philosophy, BioEssays, BioSocieties, Body & Society, European Journal for Philosophy of Science, History and Philosophy of the Life Sciences, Synthese, Studies in History and Philosophy of Science, International Studies in the Philosophy of Science, Progress in Brain Research, Frontiers in Human Neuroscience

2021 – present Member of the Equal Opportunities Council, Faculty for History,
Philosophy and Theology, Bielefeld University

RESEARCH NETWORKS AND SCIENTIFIC SOCIETIES

2021 – present European Philosophy of Science Association (EPSA)
2017 – present International Society for the History, Philosophy and Social Studies
of Biology (IHPSSB)
2016 – present Philosophy of Science Association (PSA)
2016 – present Gesellschaft für Wissenschaftsphilosophie (GWP)
2014 – present Neuroscience and Society Network, King's College, London

2014 – 2016	Hubbub Group at the Wellcome Collection, London
2013 – present	Organization of Human Brain Mapping (HBM)
2012 – present	German Society for Analytic Philosophy (GAP)
2011 – present	Society for Philosophy of Science in Practice (SPSP)
2010 – present	Research Group “Critical Neuroscience”
2010 – 2012	Research Group “Bildakt und Verkörperung”, Humboldt- University Berlin