

Markus I. Eronen

Assistant Professor

Theory and History of Psychology

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Academic Career

- 2017 – Assistant professor, Department of Psychology, University of Groningen
- 2013–2017 FWO Postdoctoral fellow, Institute of Philosophy, KU Leuven, Belgium
- Mar-Jun 2015 Research Associate, Department of Philosophy, UC Davis, USA
- 2011–2013 Postdoctoral researcher, Institute of Philosophy II, Ruhr University Bochum, Germany
- Feb-Mar 2013 Visiting scholar, Department of Philosophy, University of Cincinnati, USA
- 2010–2011 Junior fellow, HWK Institute for Advanced Study Delmenhorst, Germany
- 2006–2010 PhD (Cognitive Science), University of Osnabrück (Summa Cum Laude)
Supervisors: Achim Stephan, Robert C. Richardson
- 2004–2006 Research assistant, Department of Psychology, University of Helsinki
- 1999–2004 MA (Theoretical Philosophy, Minor: Cognitive Science), University of Helsinki

Publications

Under Review

Bringmann, L. & Eronen, M. I. (minor revisions). Don't Blame the Model: Reconsidering the Network Approach to Psychopathology. *Psychological Review*.

Brooks, D. & Eronen, M. I. (conditionally accepted). The Significance of Levels of Organization for Scientific Research: A Heuristic Approach. *Studies in the History and Philosophy of Biological and Biomedical Sciences*.

Journal articles (14)

Eronen, M. I. (forthcoming). Interventionism for the Intentional Stance: True Believers and Their Brains. *Topoi*.

Eronen, M. I. (forthcoming). Psychopathology and Truth: A Defense of Realism. *Journal of Medicine and Philosophy*.

Eronen, M. I. (forthcoming). Robust Realism for the Life Sciences. *Synthese*.

Eronen, M. I. (2016). Robustness is the kind of coherence that matters – a comment on Kendler (2015). *Psychological Medicine* 46(7), 1563-1564. [Reply by Kendler in the same issue, pp. 1565-1566].

Bringmann, L. & Eronen, M. I. (2016). Heating up the measurement debate: What psychologists can learn from the history of physics. *Theory & Psychology* 26(1), 27-43.

- Eronen, M. I. (2015a). Levels of Organization: A Deflationary Account. *Biology & Philosophy* 30(1), 39-58.
- Eronen, M. I. (2015b). Robustness and Reality. *Synthese* 192(12), 3961-3977.
- Eronen, M. I. & Brooks, D. (2014). Interventionism and Supervenience: A New Problem and Provisional Solution. *International Studies in the Philosophy of Science* 28(2), 185-202.
- Eronen, M. I. (2014). Hypothetical Identities: Explanatory Problems for the Explanatory Argument. *Philosophical Psychology* 27(4), 571-582.
- Eronen, M. I. (2013). No Levels, No Problems: Downward Causation in Neuroscience. *Philosophy of Science* 80(5), 1042-1052.
- Raerinne, J. & Eronen, M. I. (2012) Multiple Realizability and Biological Laws. *History and Philosophy of the Life Sciences* 34(4), 521-538.
- Eronen, M. I. (2012). Pluralistic Physicalism and the Causal Exclusion Argument. *European Journal for Philosophy of Science* 2(2), 219-232.
- Eronen, M. I. (2011). Replacing Functional Reduction with Mechanistic Explanation. *Philosophia Naturalis* 47-48, 125-153.
- Eronen, M. I. (2009). Reductionist Challenges to Explanatory Pluralism: Comment on McCauley. *Philosophical Psychology* 22, 637-646.

Book chapters (5)

- Eronen, M. I. (invited, submitted). Levels of Organization. In L. Nuño de la Rosa & G. Müller (eds.) *The Evolutionary Developmental Biology Reference Guide*. Springer.
- Eronen, M. I. & Brooks, D. (2018). Levels of Organization in Biology. *Stanford Encyclopedia of Philosophy*.
- Eronen, M. I. (2013). Realization and Robustness: Naturalizing Non-Reductive Physicalism. In K. Talmont-Kaminski & M. Milkowski (eds.) *Regarding the Mind, Naturally: Naturalist Approaches to the Sciences of the Mental*. Newcastle: Cambridge Scholars Publishing, 119-137.
- Walter, S. & Eronen, M. I. (2011) Reductionism, Multiple Realizability, and Levels of Reality. In S. French & J. Saatsi (eds.) *Continuum Companion to the Philosophy of Science*. London: Continuum, 138-156.
- Eronen, M. I. (2008). Explaining the Brain: Ruthless Reductionism or Multilevel Mechanisms? *Papers of the 31st International Wittgenstein Symposium, Vol. XVI*, 86-88.

Books and edited volumes

- Eronen, M. I. & van Riel, R. (Eds.) (2015). *Understanding Through Modeling: The Explanatory Power of Inadequate Representation*. Special issue of *Synthese*.
- Eronen, M. I. (2011). *Reduction in Philosophy of Mind: A Pluralistic Account*. Frankfurt am Main: Ontos (De Gruyter).

Other publications

- Eronen, M. I. (forthcoming). Emergence. #Nodes (online volume, eds. G. A. Schwartz & V. Bermudez).

Eronen, M. I. & van Riel, R. (2015). Understanding Through Modeling: The Explanatory Power of Inadequate Representation [editors' introduction]. *Synthese* 192(12), 3777-3780.

Eronen, M. I. (2015). Are There Levels Out There? *Scientia Salon*, August 3, 2015. (<https://scientiasalon.wordpress.com/2015/08/03/are-there-levels-out-there/>)

Eronen, M. I. (2012). Review: J. Hohwy and J. Kallestrup (eds.) Being Reduced. *British Journal for the Philosophy of Science* 63, 227-231.

Eronen, M. I. & Hoffmann-Kolss, V. (2011). Levels and Causation in Neuroscience [conference report]. *The Reasoner* 5(9), 152-153.

Eronen, M. I. (2004). Emergence in the Philosophy of Mind. Master's thesis, University of Helsinki. (<http://ethesis.helsinki.fi/julkaisut/hum/filos/pg/eronen/>)

Grants and Awards

- 2016 – 2018 ERA-NET NEURON project: The integration of cross-disciplinary research in neuroscience and social science – a methodological case study on economic policies and the neuroscience of agency (co-applicant; 44 840 €)
- 2013 – 2017 Postdoctoral fellowship of the Research Council Flanders – FWO
- 2015 FWO Travel grant for a research stay at UC Davis, CA (ca. 6000 €)
- 2011 – 2013 Research Scholarship, Ruhr University Bochum (2000 € / month)
- 2011 Grant for organizing workshop “Levels and Causation in Neuroscience” (with Vera Hoffmann-Kolss), Pro*Niedersachsen (7640 €)
- 2010 – 2011 Junior Fellow, HWK Institute for Advanced Study (2000 € / month)
- 2010 Award: Best Presentation (with Daniel Brooks), European Graduate School on Philosophy of Mind, Lausanne, Switzerland
- 2009 – 2010 Scholarship for PhD research, Finnish Cultural Foundation (21 000 €)
- 2007 – 2009 Scholarship for PhD research, DAAD Germany (1000 € / month)
- 2007 – 2008 Member of the Northern German Network of Excellence of the HWK Institute for Advanced Study
- 2006 – 2007 Scholarship, Helsingin Sanomain 100-vuotissäätiö (19 000 €)
- 2003 – 2004 Erasmus scholarship for study abroad at Bremen University

Organization of international meetings

- May 2017 “Workshop: Causality in Psychological Modeling” (Organized with Jan-Willem Romeijn), Keynote speaker Denny Borsboom, RUG Groningen
- Oct 2015 “Pathologizing Body and Mind: Leuven Philosophy of Medicine Conference 2015” (Organized with Jonathan Sholl and Andreas de Block), Keynote speakers Denny Borsboom and Carl Craver, KU Leuven

- Nov 2014 “Workshop: Mental Causation – Old Problems, New Solutions?” (Organized with Stefaan Cuypers) Keynote speakers Tom Polger and Larry Shapiro, KU Leuven
- Apr 2013 “Workshop: Explanatory Power II: Understanding Through Modeling” (Organized with Raphael van Riel), Keynote speaker Paul Teller, Ruhr University Bochum
- Dec 2012 “Models and Mechanisms – Special Focus on Cognitive Science” (Conference; Program committee member) Tilburg University
- May 2012 “Workshop: Explanatory Power” (Organized with Raphael van Riel), Ruhr University Bochum
- July 2011 “Workshop: Levels and Causation in Neuroscience” (Organized with Vera Hoffmann-Kolss) Keynote speakers William Bechtel and James Woodward, HWK Institute for Advanced Study

Reviewing

Journals

Acta Analytica, Acta Biotheoretica, Biological Theory, Dialectica, Erkenntnis (x 6), *European Journal for Philosophy of Science, Frontiers in Psychology, Frontiers in Psychiatry, International Studies in the Philosophy of Science, Journal for General Philosophy of Science, Logique et Analyse, Minds & Machines, Perspectives on Science, Philosophia Naturalis, Philosophical Papers, Philosophical Psychology* (x 3), *Philosophy and Phenomenological Research, Philosophy & Theory in Biology, Review of General Psychology, Southern Journal of Philosophy, Studia Philosophica Estonica, Synthese* (x 3), *Theoria – A Swedish Journal of Philosophy* (x 2), *Theoria: An International Journal for Theory History and Foundations of Science, Theory & Psychology* (x 3), *Topoi*

Other

MIT Press (book proposal x 2)

NWO (VENI proposal)

Teaching and supervision

University of Groningen

- 2017 - Coordinator of the master program “Reflecting on Psychology”
- 2017 Capita Selecta Reflections on Psychology (MSc)
- 2017 Conceptual Issues in Psychology (MSc)

KU Leuven

2015-2017 Completed the teacher-training program of KU Leuven

10 master’s thesis students supervised (as main supervisor)

- 2016 Philosophy of Science (BA)
- 2014 Contemporary Philosophical Texts: Analytical Philosophy (MA)
- 2014 Masterseminarie Theoretische Filosofie (Filosofie van de Psychologie en de Neurowetenschappen, in Dutch) (MA)
- 2014 Philosophy of Mind (in Dutch, two lectures) (BA)
- 2014 Philosophical Anthropology (four lectures) (BA)
- 2013 Contemporary Philosophical Texts: Analytical Philosophy (MA)

Ruhr University Bochum

- 2013 Philosophy of Psychology (BA/MA)
- 2012–2013 Theories of Knowledge and Representation (MA)

2012 Einführung in die Erkenntnis- und Wissenschaftstheorie (Introduction to epistemology and philosophy of science, in German) (BA/MA)

University of Osnabrück

2010 Topics in the Philosophy of Science: Laws and causation (MA)
2009 Introduction to the Philosophy of Science (MA)
2006–2007 The Free Will Debate in Philosophy – Past and Present (BA/MA)

Talks

Invited talks

5/2017 “Heating up the measurement debate: What psychologists can learn from the history of physics” (with Laura Bringmann) at Radboud University Nijmegen, Netherlands
3/2017 “The Nature of Hierarchical Organization in Biology” at KLI, Austria
9/2016 “A Philosophical Introduction to Causation in Psychology” at KU Leuven (Department of Health Psychology), Belgium
12/2015 “Real Patterns Without Levels” at Humboldt University of Berlin, Germany
10/2015 “Are There Levels Out There? A Skeptical Look” at Umea University, Sweden
7/2015 “Are There Levels Out There? A Skeptical Look” at University of Cologne, Germany
5/2014 “Levels and Downward Causation in Neuroscience” at HHU Düsseldorf, Germany
7/2012 “On the Reality of Higher-Level Properties” at Humboldt University of Berlin, Germany
3/2012 “No Levels, No Problems: Downward Causation in Neuroscience” at University of Helsinki, Finland
2/2011 “Reduction and Levels in Retina Research” at HWK Institute for Advanced Study, Germany
12/2010 “Reduction in Philosophy of Mind: A Pluralistic Account” at Forschungskolleg Humanwissenschaften, Bad Homburg, Germany
6/2009 “There Is No Functional Reduction – A Defense of Explanatory Pluralism” at Ruhr University Bochum, Germany
12/2008 “Reconciling Reductionist Intuitions with Explanatory Pluralism” at University of Lausanne, Switzerland

Peer-reviewed conference and workshop presentations

1/2018 “Interventionism for the Intentional Stance: True Believers and Their Brains”, Workshop with Daniel Dennett, Antwerp University, Belgium
8/2017 “Robust Realism for the Life Sciences” Quo Vadis Selective Scientific Realism? Durham, UK
7/2017 “Interventionism and the Challenge of Psychological Causation” Theories of causation: mental causation, negative causation, and other challenges, Düsseldorf, Germany
12/2016 “Robust Realism for the Life Sciences” OZSW 2016, Groningen, The Netherlands
11/2016 “Robust Realism for the Life Sciences” PSA 2016 [Philosophy of Science Association], Atlanta, GA, USA

- 5/2016 "Robust Realism for the Life Sciences" Philosophy of Science in a Forest, Utrecht, The Netherlands
- 9/2015 "Defending the Interventionist Solution to Causal Exclusion" GAP9 [German Society for Analytic Philosophy], Osnabrück, Germany
- 8/2015 "Robustness and Reality: How Science Justifies Ontological Commitments" CLMPS [Congress on Logic, Methodology and Philosophy of Science], Helsinki, Finland
- 2/2015 "Defending the Interventionist Approach to Mental Causation" Rudolf Carnap Lectures 2015, Bochum, Germany
- 1/2014 "Robustness, Models, and Reality" VAF [Dutch-Flemish Association for Analytic Philosophy], Groningen, The Netherlands
- 9/2013 "Defending the Interventionist Solution to the Exclusion Problem" CLPS13 [Conference on Logic and Philosophy of Science], Ghent, Belgium
- 3/2013 "Defending the Interventionist Solution to the Exclusion Problem" GWP.2013 [German Society for Philosophy of Science], Hanover, Germany
- 11/2012 "No Levels, No Problems: Downward Causation in Neuroscience" PSA 2012 [Philosophy of Science Association], San Diego, CA, USA
- 9/2012 "Levels of Mechanisms in Neuroscience: A Deflationary Account" GAP8 [German Society for Analytic Philosophy], Constance, Germany
- 10/2011 "Pluralistic Physicalism and the Causal Exclusion Argument" EPSA11 [European Philosophy of Science Association], Athens, Greece
- 9/2011 "Hypothetical Identities: Why the Explanatory Argument for Type Physicalism Fails" ECAP7 [European Congress of Analytic Philosophy], Milan, Italy
- 10/2010 "Philosophy or Neuroscience: A Non-exclusive Disjunction" (with Daniel Brooks) European Graduate School: Philosophy of mind, reduction, neuroscience, Lausanne, Switzerland
- 4/2010 "The Future of Psychoneural Reduction: A Defense of Pluralism" FPS2010 [Sydney-Tilburg Conference on the Future of Philosophy of Science], Tilburg, Netherlands
- 9/2009 "There Is No Functional Reduction - A Defense of Explanatory Pluralism" Workshop *Reductionism, Explanation and Metaphors in the Philosophy of Mind*, Bremen, Germany
- 9/2009 "A New Look at Reductive Explanation and the Explanatory Gap" GAP7 [German Society for Analytic Philosophy], Bremen, Germany
- 9/2008 "How to Explain the Brain? Ruthless Reductionism vs. Multilevel Mechanisms" DGPhil [German Society for Philosophy], Essen, Germany
- 8/2008 "A New Look at Reduction in Philosophy of Mind" ECAP6 [European Congress of Analytic Philosophy], Krakow, Poland
- 8/2008 "Explaining the Brain: Ruthless Reductionism or Multilevel Mechanisms?" 31st International Wittgenstein Symposium, Kirchberg am Wechsel, Austria
- 4/2008 "Reductionism, Explanatory Pluralism and Invariance" RSS2008 [Sydney-Tilburg Conference on Reduction and the Special Sciences], Tilburg, Netherlands.
- 11/2007 "Reductionism and Explanatory Pluralism" EPSA07 [European Philosophy of Science Association], Madrid, Spain