Sander Beckers

Curriculum Vitae

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Research Areas

Areas of Specialization: Causality, Philosophy of AI, Philosophy of Science

Areas of Competence: Formal Epistemology, Ethics, Wittgenstein

Employment

2019-current	Humboldt postdoctoral fellow (supervisor: Stephan Hartmann) Munich Center for Mathematical Philosophy, LMU
2020 Fall	NIAS-Lorentz Theme-group fellow on Explainable AI in medicine, Netherlands Institute for Advanced Studies, Amsterdam
2019 January	Visiting scholar (host: Frederick Eberhardt) Division of the Humanities and Social Sciences, Caltech
2018-2019	Postdoctoral scholar (supervisor: Jan Broersen) Reins project: https://responsibleintelligentsystems.sites.uu.nl Department of Philosophy and Religious Studies, Utrecht University
2017 Fall	Visiting postdoctoral scholar (supervisor: James Conant) Institute of Philosophy, Leipzig University
2016-2017	Visiting B.A.E.F. Fellow (supervisor: Joe Halpern) Department of Computer Science, Cornell University
2012-2016	Ph.D. in Computer Science, October 2016 KULeuven - University of Leuven, Belgium Dissertation: Actual Causation: Definitions and Principles Supervisors: Hendrik Blockeel and Joost Vennekens
2013 Fall	Visiting doctoral researcher (host: Stephan Hartmann) Munich Center for Mathematical Philosophy, LMU
2010-2011	Researcher at University of Leuven, EAVISE research group <i>Project: S.O.S. OpenCL: Multicore Cooking</i>
2008-2009	(part-time) internship as actuary Aon Benfield Belgium and BNP Paribas Belgium, Employee Benefits

Grants and Fellowships

2020 Fall	NIAS-Lorentz Theme Group
2019-2021	Humboldt Research Fellowship for Postdoctoral Researchers
2016-2017	Research Fellowship, Belgian American Educational Foundation
2012-2015	Ph.D. Grant for Fundamental Research, Flanders Innovation & Entrepreneurship

Education

2011 Master in Mathematics, University of Leuven (distinction)

Dissertation: Deductive Reasoning in Guarded FO(ID)

Supervisor: Marc Denecker

2008 Bridge program in Mathematics, University of Leuven

2011 Master in Philosophy, University of Leuven (distinction)

Dissertation: Wittgenstein en het Ethische

Supervisor: Arnold Burms

2004 Bachelor in Philosophy, University of Antwerp (distinction)

Refereeing

AAAI Conference on Artificial Intelligence (Program Committee 2017, 2020, 2021), Erkenntnis, Ethics and Information Technology, European Journal for Philosophy of Science, Information, International Joint Conference on Artificial Intelligence (Program Committee 2020), Journal of Philosophical Logic, Journal of Social Philosophy, Philosophy and Theory of Artificial Intelligence, Synthese, The Philosophical Review

Research

Talks

Conferences

- 2019 'Formalizing Mental Causation', EPSA conference, Geneva, Switzerland
- 2019 'Approximate Causal Abstraction', UAI conference, Tel Aviv, Israel
- 2019 'Abstracting Causal Models', DIEP Conference, Amsterdam, the Netherlands
- 2019 'Formalizing the Causal Conditions for Moral Responsibility', REINS closing conference, Utrecht University, the Netherlands
- 2019 'Abstracting Causal Models', AAAI Conference on Artificial Intelligence, Honolulu, United States
- 2018 'Formalizing Mental Causation', OZSW conference, Enschede, the Netherlands
- 2018 'Causation and the Principle of Alternative Possibilities', Causes, Norms, and Decisions Workshop, Hannover, Germany
- 2017 'A Formal Approach to Frankfurt-style Cases', OZSW conference, Doorn, the Netherlands
- 2017 'AAAI: an Argument Against Artificial Intelligence', Philosophy and Theory of Artificial Intelligence, Leeds, UK
- 2017 'AAAI: an Argument Against Artificial Intelligence', European Conference for Analytic Philosophy, Munich, Germany
- 2017 'AAAI: an Argument Against Artificial Intelligence', AAAI Workshop on AI, Ethics and Society, San Francisco

- 2016 'The Transitivity and Asymmetry of Actual Causation', Philosophy of Science in a Forest, Doorn, the Netherlands
- 2015 'A Principled Approach to Defining Actual Causation', Conference of Logic, Methodology and Philosophy of Science, Helsinki, Finland
- 2015 'Combining Probabilistic, Causal, and Normative Reasoning using CP-logic', AAAI Spring Symposium: Commonsense Reasoning, Stanford University
- 2013 'Dual Inheritance Theory as an Integration of Biology and the Humanities', Reduction and Emergence in the Sciences conference, Munich Center for Mathematical Philosophy
- 2013 'A Pragmatic Approach to Causality', OZSW conference, University of Rotterdam
- 2013 'Actual Causation in Cases of Preemption: the CP-logic Approach', Graduate Conference in Theoretical Philosophy, University of Groningen, the Netherlands
- 2012 'Actual Causation in Cases of Preemption: the CP-logic Approach', Great Plains Graduate Conference in Philosophy, Kansas University
- 2012 'Counterfactual Dependency and Actual Causation in CP-logic and Structural Models: a Comparison', STAIRS conference, Montpellier, France
- 2012 'Parallel hybrid SAT solving using OpenCL', BNAIC, Maastricht University, the Netherlands
- 2011 'Parallel SAT-solving with OpenCL', IADIS, Rio de Janeiro, Brazil

Invited Talks and Colloquia

- 2020 'Formalizing Non-Reductive Supervenience using Causal Models with Constraints', Invited speaker, Symposium on Interventionism and Causal Exclusion, Nijmegen, the Netherlands
- 2019 'Causation and the Principle of Alternative Possibilities', Invited speaker, Free Will and Causality conference, Dusseldorf, Germany
- 2018 'Applying Causal Modeling to Philosophical Issues', Invited talk, Logic and Metaphysics Workshop, CUNY
- 2017 'Formal Ethics', Invited talk, Center for Human-Compatible AI, UC Berkeley
- 2015 'A Principled Approach to Defining Actual Causation', Invited talk, Tilburg Center for Logic, Ethics, and Philosophy of Science, the Netherlands
- 2015 'The Problem of Actual Causation', Epistemology Reading Group, Department of Linguistics and Philosophy, MIT
- 2014 'Actual Causation using CP-logic', Declarative Languages and AI seminar, University of Leuven, Belgium
- 2013 'Actual Causation using CP-logic', colloquium, Munich Center for Mathematical Philosophy
- 2013 'Actual Causation: the CP-logic Approach', Invited talk, INRIA, Grenoble, France
- 2013 'Actual Causation in Cases of Preemption: the CP-logic Approach', Center for Logic and Analytic Philosophy colloquium, University of Leuven, Belgium
- 2012 'Parallel hybrid SAT solving using OpenCL', Declarative Languages and AI seminar, University of Leuven, Belgium

Teaching

Utrecht University

Undergraduate program Philosophy, tutorials:

2018-2019: Logic for philosophers

2018-2019: Epistemology and Philosophy of Science

2019: Philosophical Reflection on Scientific Models of Man

Undergraduate program in Artificial Intelligence, lectures:

2018: Introduction to Statistics

Master in Artificial Intelligence:

2018: Philosophy of AI, tutorials

2018-2019: Philosophy of AI, two guest lectures

University of Leuven

Undergraduate program Civil Engineering, exercise classes:

2014-2015 Introduction to Programming: Python

2012-2013 Introduction to Programming: Java

Undergraduate program Industrial Engineering, exercise classes:

2015: Introduction to the IDP knowledge base system

2014-2015 Introduction to Programming: Python

2010-2013 Introduction to Programming: C

References

Frederick Eberhardt Professor of Philosophy, California Institute of Technology fde@caltech.edu

Joe Halpern

Professor at the Department of Computer Science, Cornell University halpern@cs.cornell.edu

Joost Vennekens

Professor at the Faculty of Engineering Technology, University of Leuven joost.vennekens@cs.kuleuven.be

Stephan Hartmann

Professor at the Munich Center for Mathematical Philosophy, Ludwig Maximilian University S.Hartmann@lmu.de