Sander Beckers

Curriculum Vitae

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Employment

2019-2021	Humboldt Postdoctoral scholar (supervisor: Stephan Hartmann) Munich Center for Mathematical Philosophy, LMU
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
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 Fortis Insurance Belgium, Employee Benefits
2008	(part-time) internship as actuary Aon Benfield Belgium

Education

<u>Program</u>	<u>Institution</u>	<u>Year</u>	Result
Master in Mathematics Dissertation: Deductive I Supervisor: Marc Deneck	University of Leuven Reasoning in Guarded FO(ID) Rer	2011	distinction
Bridge program Mathematics	University of Leuven	2008	
Master in Philosophy University of Leuven 2006 Dissertation: Wittgenstein en het Ethische Supervisor: Arnold Burms 2005: one semester abroad at Stellenbosch University, South Africa			distinction
Bachelor in Philosophy	University of Antwerp	2004	distinction
European Baccalaureate	European School Mol (Belgium)	2001	80%

Grants and Fellowships

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

Research

Publications

Beckers, S. (2018). AAAI: an Argument Against Artificial Intelligence, In Vincent C. Müller (ed.), *Philosophy and Theory of Artificial Intelligence 2017*, (SAPERE; Berlin: Springer), 235-247.

Beckers, S. and Vennekens, J. (2018). A Principled Approach to Defining Actual Causation, *Synthese*, 195(2), 835-862.

Beckers, S. and Vennekens, J. (2017). The Transitivity and Asymmetry of Actual Causation, *Ergo*, 4(1),1-27.

Beckers, S. and Vennekens, J. (2016). A General Framework for Defining and Extending Actual Causation using CP-logic, *International Journal for Approximate Reasoning*, 77: 105-126.

Conference papers

Beckers, S. and Halpern, J.Y. (2019). Abstracting Causal Models, In *Proceedings of the 33rd AAAI Conference on Artificial Intelligence*, forthcoming.

Beckers, S. (2017). AAAI: an Argument Against Artificial Intelligence, In *Proceedings of the 3rd International Workshop on AI, Ethics and Society*.

Beckers, S. and Vennekens, J. (2015). Towards a General Definition of Actual Causation Using CP-logic. In *Proceedings of the 2nd International Workshop on Probabilistic Logic Programming co-located with ICLP*, volume 1413 of CEUR Workshop Proceedings, 19–38.

Beckers, S. and Vennekens, J. (2015). Combining Probabilistic, Normative, and Causal Reasoning in CPlogic, In *Proceedings of the 12th International Symposium on Logical Formalizations of Commonsense Reasoning*, 32-38.

Beckers, S. and Vennekens, J. (2012). Counterfactual Dependency and Actual Causation in CP-logic and Structural Models: a Comparison. In *Proceedings of the Sixth STAIRS*, volume 241 of Frontiers in Artificial Intelligence and Applications, 35–46.

Beckers, S., De Samblanx, G., De Smedt, F., Goedemé, T., Struyf, L., and Vennekens, J. (2012). Parallel hybrid SAT solving using OpenCL. In *Proceedings of Benelux Conference on Artificial Intelligence*, 11-18.

Beckers, S., De Samblanx, G., De Smedt, F., Goedemé, T., Struyf, L., and Vennekens, J. (2011). Parallel SAT-solving with OpenCL. In *Proceedings of the IADIS International Conference on Applied Computing*, 435-441.

Talks

- 2018 'Formalizing Mental Causation', OZSW conference, Enschede, the Netherlands
- 2018 'Applying Causal Modeling to Philosophical Issues', Invited talk, Logic and Metaphysics Workshop, CUNY
- 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 'Formal Ethics', Invited talk, Center for Human-Compatible AI, UC Berkeley
- 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 '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
- 2015 'Combining Probabilistic, Causal, and Normative Reasoning using CP-logic', AAAI Spring Symposium: Commonsense Reasoning, Stanford University
- 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 '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: the CP-logic Approach', Invited talk, INRIA, Grenoble, France
- 2013 'Actual Causation in Cases of Preemption: the CP-logic Approach', Graduate Conference in Theoretical Philosophy, University of Groningen, the Netherlands
- 2013 'Actual Causation in Cases of Preemption: the CP-logic Approach', Center for Logic and Analytic Philosophy colloquium, University of Leuven, Belgium
- 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
- 2012 'Parallel hybrid SAT solving using OpenCL', Declarative Languages and AI seminar, University of Leuven, Belgium
- 2011 'Parallel SAT-solving with OpenCL', IADIS, Rio de Janeiro, Brazil

Teaching

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

Utrecht University

Undergraduate program Philosophy, tutorials:

2018-2019: Logic for philosophers

2018-2019: Epistemology and Philosophy of Science

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

Refereeing

AAAI Conference on Artificial Intelligence

Ethics and Information Technology

European Journal for Philosophy of Science

Information

International Joint Conference on Artificial Intelligence

Philosophy and Theory of Artificial Intelligence

The Philosophical Review