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
Project: S.O.S. OpenCL: Multicore Cooking

2008-2009 (part-time) internship as actuary
Fortis Insurance Belgium, Employee Benefits

2008 (part-time) internship as actuary
Aon Benfield Belgium

Education

Program	Institution	Year	Result
Master in Mathematics *Dissertation: Deductive Reasoning in Guarded FO(ID)* *Supervisor: Marc Denecker*	University of Leuven	2011	distinction
Bridge program Mathematics	University of Leuven	2008	
Master in Philosophy *Dissertation: Wittgenstein en het Ethische* *Supervisor: Arnold Burms* *2005*: *one semester abroad at Stellenbosch University, South Africa*	University of Leuven	2006	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. (2017). AAAI: an Argument Against Artificial Intelligence, In *Proceedings of the 3rd International Workshop on AI, Ethics and Society*, forthcoming.

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 CP-logic, 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 '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, tutorials:
- 2018: Philosophy of AI

Master in Artificial Intelligence, two guest lectures:
- 2018-2019: Philosophy of AI

References (may be contacted)

Jan Broersen
Professor at the Department for Philosophy and Religious Studies, Utrecht University
J.M.Broersen@uu.nl

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

Jan Sprenger
Professor at the Center for Logic, Language and Cognition, Department of Philosophy and Educational Sciences, University of Turin
jan.sprenger@unito.it

Ned Hall
Professor and Chair at the Department of Philosophy, Harvard University
ehall@fas.harvard.edu