Sander Beckers
Curriculum Vitae

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Employment

2019-2021   Humboldt Postdoctoral scholar (supervisor: Stephan Hartmann)
               Munich Center for Mathematical Philosophy, LMU

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

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	University of Leuven	2011	distinction
Dissertation: Deductive Reasoning in Guarded FO(ID)			
Supervisor: Marc Denecker			
Bridge program Mathematics	University of Leuven	2008	
Master in Philosophy	University of Leuven	2006	distinction
Dissertation: Wittgenstein en het Ethische			
Supervisor: Arnold Burms			
2005: one semester abroad at Stellenbosch University, South Africa			
Bachelor in Philosophy	University of Antwerp	2004	distinction

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

Major Publications (full list available on website)

Beckers, S., Eberhardt, F., and Halpern, J.Y. (2019). Approximate Causal Abstraction, In *Proceedings of the 35th Conference on Uncertainty in Artificial Intelligence* (UAI 2019)

Beckers, S. and Halpern, J.Y. (2019). Abstracting Causal Models, In *Proceedings of the 33rd AAAI Conference on Artificial Intelligence*, vol 33, 2678-2685.

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.

Refereeing

AAAI Conference on Artificial Intelligence (Program Committee)

Erkenntnis

Ethics and Information Technology

European Journal for Philosophy of Science

Information

International Joint Conference on Artificial Intelligence (Program Committee)

Journal of Philosophical Logic

Journal of Social Philosophy

Philosophy and Theory of Artificial Intelligence

Synthese

The Philosophical Review

Selected Talks (full list available on website)

2019   'Causation and the Principle of Alternative Possibilities', Invited speaker, Free Will and Causality conference, Dusseldorf, Germany

2019   'Formalizing Mental Causation', EPSA conference, Geneva, Switzerland

2019   'Approximate Causal Abstraction', UAI conference, Tel Aviv, Israel

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 '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 'AAAI: an Argument Against Artificial Intelligence', Philosophy and Theory of Artificial Intelligence, Leeds, UK

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 'Combining Probabilistic, Causal, and Normative Reasoning using CP-logic', AAAI Spring Symposium: Commonsense Reasoning, Stanford University

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

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
    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