## **Sander Beckers**

Curriculum Vitae

Department of Computer Science Cornell University 343 Campus Road Ithaca, NY 14853

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# **Employment**

2016-2017	Visiting B.A.E.F. Fellow 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 Researcher at 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>	Institution	<u>Year</u>	Result
Master in Mathematics  Dissertation: Deductive In Supervisor: Marc Denection	University of Leuven Reasoning in Guarded FO(ID) ker	2011	distinction
Bridge program Mathematics	University of Leuven	2008	
Master in Philosophy University of Leuven 2006 distinct  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 Baccalaurate	European School Mol (Belgium)	2001	80%

# **Grants and Fellowships**

2016-2017	Research Fellowship, Belgian American Educational Foundation
2012-2015	Ph.D. Grant for Fundamental Research, Flanders Innovation & Entrepreneurship

#### Research

#### **Publications**

Beckers, S., and Vennekens, J. (2017). The Transitivity and Asymmetry of Actual Causation, *Ergo*, forthcoming.

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. (2016). A Principled Approach to Defining Actual Causation, *Synthese*, forthcoming.

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.

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**

- 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**

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