

GERCO VAN HEERDT

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NATIONALITY: Dutch

Education

Present SEP 2016	PhD in Computer Science University College London Supervisor: Alexandra Silva Assessor: Frits Vaandrager
AUG 2016 SEP 2014	MSc in Computer Science Radboud University Nijmegen Grade: 7.9/10 Track: Mathematical Foundations of Computer Science Thesis: <i>An Abstract Automata Learning Framework</i> (graded 9/10) Supervisor: Frits Vaandrager Second supervisor: Joshua Moerman External supervisor: Alexandra Silva Assessor: Bart Jacobs
AUG 2014 SEP 2011	BSc in Computer Science Radboud University Nijmegen Grade: 7.7/10, <i>bene meritum</i> Thesis: <i>Efficient Inference of Mealy Machines</i> (graded 10/10) Supervisor: Alexandra Silva Second supervisor: Matteo Sammartino

Employment

DEC 2019 SEP 2019	Teaching assistant at University College London Ran Python clinics for the course <i>Design and Professional Skills 1</i> .
DEC 2018 OCT 2018	Teaching assistant at University College London Ran Python clinics for the course <i>Design and Professional Skills 1</i> .
MAR 2018 JAN 2018	Teaching assistant at University College London Helped teach exercise classes for the course <i>Introduction to Programming</i> .
JAN 2015 SEP 2014	Student assistant at Radboud University Nijmegen Taught exercise classes and provided solutions for the course <i>Algorithms and Data Structures</i> .

Publications

- [1] Gerco van Heerdt, Clemens Kupke, Jurriaan Rot, and Alexandra Silva. Learning weighted automata over principal ideal domains. In *FoSSaCS 2019*, to appear. URL <http://arxiv.org/abs/1911.04404>.
- [2] Gerco van Heerdt, Joshua Moerman, Matteo Sammartino, and Alexandra Silva. A (co)algebraic theory of succinct automata. *JLAMP*, 2019. doi: 10.1016/j.jlamp.2019.02.008.

- [3] Gerco van Heerdt, Tobias Kappé, Jurriaan Rot, Matteo Sammartino, and Alexandra Silva. Tree automata as algebras: Minimisation and determinisation. In *CALCO, LIPIcs*, 2019. doi: 10.4230/LIPIcs.CALCO.2019.6.
- [4] Gerco van Heerdt, Bart Jacobs, Tobias Kappé, and Alexandra Silva. Learning to coordinate. In *It's All About Coordination - Essays to Celebrate the Lifelong Scientific Achievements of Farhad Arbab*, 2018. doi: 10.1007/978-3-319-90089-6_10.
- [5] Gerco van Heerdt, Justin Hsu, Joël Ouaknine, and Alexandra Silva. Convex language semantics for nondeterministic probabilistic automata. In *ICTAC*, 2018. doi: 10.1007/978-3-030-02508-3_25.
- [6] Gerco van Heerdt, Matteo Sammartino, and Alexandra Silva. CALF: categorical automata learning framework. In *CSL*, 2017. doi: 10.4230/LIPIcs.CSL.2017.29.

Talks

- SEP 2019 | Learning Weighted Automata. *UCL PPLV Galway Trip*.
- JUN 2019 | Tree Automata as Algebras: Minimisation and Determinisation. *CALCO*.
- JAN 2019 | Automata Learning. *Talk for a group of students*.
- OCT 2018 | Convex Language Semantics for Nondeterministic Probabilistic Automata. *ICTAC*.
- SEP 2017 | Learning Automata with Side-Effects. *YR-CONCUR*.
- AUG 2017 | CALF: Categorical Automata Learning Framework. *CSL*.
- MAY 2017 | CALF: Categorical Automata Learning Framework. *UCL PPLV seminar*.

Other research activities

- AUG 2019 | Attended SPLV: The Scottish Programming Languages and Verification Summer School. *Strathclyde University, Glasgow*.
- MAR 2019 | Attended Bellairs workshop on Learning and Verification. *Bellairs Research Institute, Barbados*.
- JUL 2018 | Attended FoPSS: School on Foundations of Programming and Software systems. Logic and Learning. *St Anne's College, Oxford*.
- DEC 2017 | Attended Winter School in Computer Science and Engineering on Formal Verification. *Israel Institute for Advanced Studies, Jerusalem*.
- MAY/JUN 2017 | Attended FoPSS: School on Foundations of Programming and Software systems. Probabilistic programming. *Braga*.