

Emanuele D'Ossualdo

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Academic Experience

- May 2015–present** **Postdoctoral Researcher**, *Concurrency Theory Group*, TU Kaiserslautern, Germany
Research on Model-checking, Logics and Automata under the supervision of Prof. R. Meyer
- Research Interests* Program Analysis, Model Checking, Semantics, Models of Concurrency, Process Algebra, Declarative Programming
- Apr–Jul 2010** **Research Assistant**, *University of Siena*, Italy (under Prof. Moreno Falaschi)
Abstract Interpretation of Universal Timed Concurrent Constraint programs

Teaching

- 2013** **Tutor at Merton College**, Oxford
Topics Concurrent Programming, Imperative Programming 2
- 2011–2014** **Teaching Assistant**, *Dept. of Computer Science*, Oxford
Topics Imperative Programming (Scala), Concurrent Programming (Scala), Functional Programming (Haskell), Concurrency (CSP).

Education

- 2010–2015** **PhD in Computer Science**, *Merton College*, University of Oxford
Thesis Verification of Message Passing Concurrent Systems
(Nominated for the 2016 *CPHC/BCS Distinguished Dissertations competition*)
Supervisor Prof. C.-H. Luke Ong
- 2007–2010** **M.Sc. in Computer Science**, *University of Udine*, Italy, 110/110 *cum laude*
Dissertation on static analysis of Bigraphs by Abstract Interpretation supervised by Prof. Marco Comini and Prof. Marino Miculan.
- 2004–2007** **B.Sc. in Computer Science**, *University of Udine*, Italy, 110/110 *cum laude*
Dissertation about Monads and Arrows in Haskell
- Oct 2007–Mar 2008** **Exchange Student (Erasmus)**, *Istanbul Bilgi Universitesi*, Istanbul, Turkey

Awards

- 2004–2010** **Scatcherd European Scholarship**, *University of Oxford*
University wide scholarship, covering fees and living costs.
- 2004–2010** Student of **Scuola Superiore**, *University of Udine*
University wide scholarship for excellent students lasting five years, covering both undergraduate and graduate studies.

Selected Publications

- LICS'16** **First-order logic with reachability for infinite-state systems**, with *Roland Meyer and Georg Zetsche*. In LICS'16, to appear.
- ESOP'16** **On Hierarchical Communication Topologies in the π -calculus**, with *Luke Ong*. In European Symposium on Programming. Vol. 9632 of LNCS. Springer. 2016.
- SAS'13** **Automatic Verification of Erlang-Style Concurrency**, with *Jonathan Kochems and Luke Ong*. In Static Analysis. Vol. 7935 of LNCS. Springer. 2013.

Projects

- Soter** An Haskell program for automatic static analysis of Erlang modules, developed with Jonathan Kochems.
Demo <http://mjolnir.cs.ox.ac.uk/soter/>
- JamesBound** An experimental type system (and playground) for the π -calculus (implementing the ESOP'16 paper).
Sources <http://github.com/bordaigorl/jamesbound>
- LaborSim** A JavaScript/D3.js webapp simulating an agent computing model of the individual dynamics of firms and workers in the labor market.
Website <http://oguerr.com/laborsim/>

Other skills

- Languages** Italian (mother tongue)
English (fluent)
- Programming** Haskell, Python, JavaScript, Scala, Java, Prolog.
- Typesetting** Experienced user of \LaTeX , BEAMER and TikZ.
- Music** Studied violin for more than ten years playing mostly Classical Music.
Lately has also been studying Jazz and improvisation on the violin.
Studied Musical Composition from 2000 to 2005 at the conservatory of Udine.