

Education

- 2013–now **PhD Student**, *Technische Universität München*, Chair for Logic and Verification.
Thesis Working Title: Verification of Code Generators in Isabelle
- 2012–2013 **Master of Science in Computer Science**, *Technische Universität München*, Munich.
- 2010–2011 **Exchange semester**, *Queen's University*, Belfast.
- 2008–2012 **Bachelor of Science in Computer Science**, *Technische Universität München*, Munich.

Work

- 08/2013–now **Research Assistant/Teaching Assistant**, *Technische Universität München*, Chair for Logic and Verification.
- 08/2015–
09/2015 **Research Internship**, *École polytechnique fédérale de Lausanne*, Lab for Automated Reasoning and Analysis.
- 05/2012–
03/2013 **Student Teaching Assistant**, *Technische Universität München*.
TA for undergraduate classes “Introduction to Theoretical Computer Science” and “Introduction to Computer Science: Functional Programming”
- 12/2011–
03/2012 **Student Research Assistant**, *Technische Universität München*, Chair for Foundations of Software Reliability and Theoretical Computer Science.
Implementation of a Datalog solver (available on GitHub)
Technologies: OCaml, Datalog
- 05/2011–
10/2011 **Student Teaching Assistant**, *Technische Universität München*.
TA for undergraduate class “Introduction to Theoretical Computer Science”
TA for pre-university class
- 10/2010–
12/2010 **Student Teaching Assistant**, *Queen's University*.
TA for undergraduate class “Fundamentals of Programming”
- 11/2009–
07/2010 **Student Research Assistant**, *Technische Universität München*, Chair for Logic and Verification.
Software development for the Isabelle system
Technologies: Scala, Java, Python

Publications

- 2016 Dominik Vinan, Lars Hupel: “Clone Detection in Isabelle Theories”. Isabelle Workshop 2016
- 2016 Julius Michaelis, Maximilian Haslbeck, Peter Lammich, Lars Hupel: “Algorithms for Reduced Ordered Binary Decision Diagrams”. Archive of Formal Proofs
- 2016 Cornelius Diekmann, Julius Michaelis, Lars Hupel: “IP Addresses”. Archive of Formal Proofs
- 2016 Lars Hupel, Viktor Kuncak: “Translating Scala Programs to Isabelle/HOL”. IJCAR 2016

- 2015 Cornelius Diekmann, Lars Hupel, Georg Carle: "Semantics-Preserving Simplification of Real-World Firewall Rule Sets". Formal Methods (FM) 2015
- 2014 Lars Hupel: "Properties of Random Graphs – Subgraph Containment". Archive of Formal Proofs
- 2014 Jasmin Blanchette, Tobias Nipkow, Lars Noschinski, Dmitriy Traytel, Lars Hupel: "The Next 1100 Haskell Programmers". Haskell Symposium 2014
- 2014 Lars Hupel: "Interactive Simplifier Tracing and Debugging in Isabelle". Conferences on Intelligent Computer Mathematics (CICM) 2014
- 2014 Cornelius Diekmann, Lars Hupel, Georg Carle: "Directed Security Policies: A Stateful Network Implementation". Workshop on Engineering Safety and Security Systems (ESSS) 2014

Conferences

- 2016 Speaker at *IJCAR*, Coimbra
- 2016 Organizer of *Typelevel Summit*, Oslo
- 2016 Speaker at *flatMap(Oslo)*, Oslo
- 2016 Speaker at *Mathema Campus*, Erlangen
- 2016 Attendant at *Northeast Scala Symposium*, Philadelphia
- 2016 Organizer of *Typelevel Summit*, Philadelphia
- 2015 Speaker at *Lambda World* (invited), Cádiz
- 2015 Speaker at *Haskell eXchange*, London
- 2015 Speaker at *Scala World* (invited), Penrith
- 2015 Attendant at *ZuriHac*, Zürich
- 2015 Speaker at *flatMap(Oslo)*, Oslo
- 2015 Speaker at *Lambda Days* (invited), Kraków
- 2014 Keynote Speaker at *Scala eXchange* (invited), London
- 2014 Speaker at *scala.io*, Paris
- 2014 Speaker at *Haskell Symposium* (colocated with ICFP), Göteborg
- 2014 Speaker at *CICM*, Coimbra
- 2014 Speaker at *flatMap(Oslo)*, Oslo
- 2014 Speaker at *Northeast Scala Symposium*, New York
- 2013 Speaker at *scala.io*, Paris
- 2013 Speaker at *Scala Workshop*, Montpellier
- 2013 Attendant at *Mathema Campus*, Erlangen
- 2013 Speaker at *Northeast Scala Symposium*, Philadelphia
- 2012 Speaker at *Herbstcampus*, Nuremberg
- 2012 Attendant at *Scala Days*, London
- 2012 Speaker at *Mathema Campus*, Erlangen
- 2011 Speaker at *Herbstcampus*, Nuremberg
- 2011 Speaker at *Mathema Campus*, Erlangen
- 2008 Attendant at *Herbstcampus*, Nuremberg
- 2007 Attendant at *Sun Tech Days*, Frankfurt
- 2007 Attendant at *JavaOne*, San Francisco