

Andre Kuhlenschmidt

CONTACT INFORMATION	Lindley Hall 215 Indiana University 150 S. Woodlawn Ave. Bloomington, IN 47405	<i>E-mail:</i> akuhlens@iu.edu <i>Phone:</i> (812) 325-7906 <i>Github:</i> github.com/akuhlens <i>WWW:</i> akuhlens.github.io
RESEARCH INTERESTS	My research involves developing techniques that improve both the process of producing software and the quality of the software produced. My most recent work focuses on gradual typing based techniques that enable developers to more efficiently develop robust software by giving them the flexibility to benefit from both static and dynamic typing.	
SKILLS	Skills Research in programming language theory and implementation. Languages Racket/Scheme, C, Haskell, Java, Python, Coq, Agda, C++ Platforms Linux and Embedded ARM	
EDUCATION	Indiana University , Bloomington, Indiana USA Ph.D. Candidate, Computer Science, Ongoing Advisor: Jeremy Siek M.S., Computer Science, May 2016 Kelley School of Business, Indiana University , Bloomington, Indiana USA B.S., Business, May 2010	
ACADEMIC EXPERIENCE	Indiana University , Bloomington, Indiana USA <i>Graduate Research Assistant to Jeremy Siek</i> January 2014 – Present Evaluating implementation techniques for programming languages that soundly mix static and dynamic typing (gradual typing) in the context of ahead-of-time compilation, and developing formal semantics for gradual programming languages and their implementation. <i>Teaching Assistant</i> January 2016 – Present Assisted in the instruction of courses teaching programming implementation, embedded programming, and operating systems. Responsibilities include teaching lab sections of 5-30 students, creating assignments, and developing course software.	
CONFERENCE PAPERS	Efficient Gradual Typing. Andre Kuhlenschmidt, Deyaaeldeen Almahallawi, Jeremy G. Siek. Conference on Programming Language Design and Implementation. (In Submission)	
WORKSHOP PAPERS	A Systematic Performance Evaluation of Gradually Typed Functions and References. Andre Kuhlenschmidt, Deyaaeldeen Almahallawi, Jeremy G. Siek. In Scripts to Programs Workshop, STOP, 2016. Towards Absolutely Efficient Gradual Typing Andre Kuhlenschmidt, Deyaaeldeen Almahallawi, and Jeremy G. Siek. In Scripts to Programs Workshop, STOP, 2015.	
OPEN SOURCE PROJECTS	Grift An ahead-of-time compiler for comparing implementations of gradual typing. github.com/Gradual-Typing/Grift/.	2014 – present