Peng Fu - Curriculum Vitae

Department of Computer Science The University of Iowa Iowa City, IA 52242-1419 peng-fu@uiowa.edu http://homepage.cs.uiowa.edu/~pfu/

Education

- Ph.D. Department of Computer Science, the University of Iowa, Iowa City, USA. Expected June 2014.
- B.Eng. School of Computer Science, Huazhong University of Science and Technology, Wuhan, China. July 2009.

Research Areas

Type theory à la Curry and lambda calculus, with applications to interactive theorem proving and functional programming language.

Dissertation Topic

"Lambda Encoding in Type Theory à la Curry", Peng Fu, expected to defend in June, 2014.

Publications

- 1. "A Framework for Internalizing Relations into Type Theory" Peng Fu, Aaron Stump, Jeff Vaughan.
 - PSATTT'11: International Workshop on Proof-Search in Axiomatic Theories and Type Theories (2011).
- 2. "Church Encoding with Dependent Type", Peng Fu, Aaron Stump. planning.
- 3. "Dependently-typed Programming with Scott Encoding" Peng Fu, Aaron Stump. planning.

Selected Talks

- 1. "A Framework for Internalizing Relations into Type Theory", August 2011, PSATTT workshop, Wroclaw. Poland.
- 2. "Dependent Lambda Encoding with Self Types", September 2012, Midwest Verification Days, Lawrence, KS.

- 3. "Lambda Encoding, Types and Confluence.", May 2013, Comprehensive Exam, Iowa City, IA.
- 4. "Dependent Lambda Encoding with Self Types", September 2013, ACM SIGPLAN Workshop on Dependently-Typed Programming(DTP), Boston, MA.

Academia Expereince

- Research Assistant, Supervisor: Aaron Stump, 2010 spring- 2013 summer. Department of Computer Science, The University of Iowa.
- Teaching Assistant, "Object-Oriented Software Development", 2013 Fall. Department of Computer Science, The University of Iowa.
- Teaching Assistant, "Programming Language Concepts", 2013 Spring. Department of Computer Science, The University of Iowa.
- Teaching Assistant, "Computer Networking", 2009 Fall. Department of Computer Science, The University of Iowa.