

PLMW @ POPL

Panel: How to do Great PL Research!

Deepak Garg



History

- Faculty at the Max Planck Institute for Software Systems (Germany)
- Ph.D. from Carnegie Mellon University (USA)
- Undergraduate degree from IIT-Delhi (India)

Background

- Type systems, proof theory, semantics
- Computer security

Research interests (broadly)

- PL techniques applied to computer security
- Secure compilation
- Software security
- Relational verification



MAX PLANCK INSTITUTE
FOR SOFTWARE SYSTEMS



Vasco T. Vasconcelos

- Department of Informatics, Faculty of Sciences, University of Lisbon
 - since 1996
- M.Sc. and Ph.D. from Keio University
- Sabbatical semester at Kyoto University (2016)
- University of Sussex (2002-03)

- Interests: programming languages for concurrent and distributed programming, type systems, process calculi, and specification and verification of computer systems

Atsushi Igarashi

- Professor at Kyoto University, Japan
 - PhD (U. Tokyo, 2000)
 - Visiting scholar between 06/98--03/00 @ Indiana & UPenn
- Research interests: Types for PL design, analysis
 - Type systems for objects and classes
 - Featherweight Java (1999 w/ Pierce & Wadler) and its relatives
 - Type systems for multi-stage programming
 - Type systems for concurrency (behavioral types)
 - Integration of static and dynamic checking
 - Gradual typing, manifest contracts

Neel Krishnaswami

- Lecturer at Cambridge (\approx assistant professor)
- Main interests:
 - Type theory (modal, linear, dependent, *et cetera*)
 - Verification (Hoare logic, separation logic, *und so weiter*)
 - Semantics (realizability models, denotational models, and so forth)
- Agenda: put things together in unexpectedly obvious ways



PHILIPPA GARDNER

IMPERIAL COLLEGE LONDON

RESEARCH: Scalable reasoning about concurrent and web programs

UNDERGRADUATE: Mathematics degree, Oxford

PHD: Computer science, supervised by Gordon Plotkin

VARIOUS FELLOWSHIPS: Edinburgh, Cambridge

PERMANENT POSITION: Imperial College London