Zhoulai Fu, Assistant Professor at IT University of Copenhagen

Rued Langgaards Vej 7, Copenhagen, 2300, Denmark, zhfu@itu.dk

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EDUCATION

2009 — 2013	Ph.D. in Computer Science, INRIA - Université de Rennes 1	France
2008 — 2009	M.Eng. in Software Engineering, Télécom ParisTech	France
2005 — 2008	B.S. and M.S., École Polytechnique	France

EMPLOYMENT HISTORY

Sep 2017 — Present — Assistant Professor, IT University of Copenhagen — Denmark

Developed automated testing and program analysis techniques for scientific software, in particular, in the Robotic Operating System (ROS).

2014 — 2017 — Postdoc Scholar, University of California, Davis — United States

Formal methods for testing, verifying, and analyzing numerical programs, their stability and accuracy.

Mar 2013 — Aug 2013 — Research Visitor, IMDEA Software Institute, Madrid — Spain

Static analysis of Java memory models

2009 — 2013 — PhD Candidate, INRIA Rennes - Bretagne Atlantique — France

Studied the theory of abstract interpretation, applying to static numerical analysis for programs manipulating pointers.

Apr 2008 — Sep 2008 — Research Intern , Laboratoire d'informatique de l'École polytechnique (LIX) — France

Static analysis for the Eiffel Language. Joint work with École Normale Supérieure, France and ETH Zurich, Switzerland.

RESEARCH PROJECTS

Apr 2020 — Oct 2020 — Co-PI, High-Level Design and Verification of Digital Systems

Verifying digital systems by a combining modern hardware construction language Chisel/Scala with the industry standard UVM (collaborative InfinIT project with AU, DTU, Microchip, WS Audiology Denmark A/S, Synopsys, Syosil Aps)

Jan 2017 — Dec 2020 — Project researcher, Horizon 2020 ROSIN Program — European Union

ROS-Industrial quality-assured robot software components

2016 — 2019 — Co-PI, National Science Foundation (NSF) Grant — United States

Testing and Analysis for Reliable Numerical Software.