Osbert Bastani

Employment

2018- **Research Assistant Professor in Computer and Information Sciences**, *University of Pennsylvania*, Philadelphia, PA.

2017-2018 **Postdoctoral Fellow in CSAIL**, *Massachusetts Institute of Technology*, Cambridge, MA.

2015 **Research Intern**, *Microsoft Research*, Cambridge, UK.

2014 **Research Intern**, *Google Research*, Mountain View, CA.

2013 **Research Intern**, *Technicolor Research Labs*, Palo Alto, CA.

Education

2012-2017 **Ph.D. in Computer Science**, *Stanford University*, Stanford, CA.

2008-2012 **A.B. in Mathematics**, *Harvard University*, Cambridge, MA.

Publications

Osbert Bastani, Yewen Pu, and Armando Solar-Lezama. Verifiable reinforcement learning via policy extraction. *NIPS*, 2018.

Osbert Bastani, Rahul Sharma, Alex Aiken, and Percy Liang. Active learning of points-to specifications. *PLDI*, 2018.

Program synthesis using conflict-driven learning. *PLDI*, 2018.

Osbert Bastani, Carolyn Kim, and Hamsa Bastani. Interpretability via model extraction. *FAT/ML*, 2017.

Osbert Bastani, Rahul Sharma, Alex Aiken, and Percy Liang. Synthesizing program input grammars. *PLDI*, 2017.

Yu Feng, Osbert Bastani, Ruben Martins, Isil Dillig, and Saswat Anand. Automated synthesis of semantic malware signatures using maximum satisfiability. *NDSS*, 2017.

Osbert Bastani, Yani Ioannou, Lenonidas Lampropoulos, Dimitrios Vytiniotis, Aditya Nori, and Antonio Criminisi. Measuring neural net robustness with constraints. *NIPS*, 2016.

Lazaro Clapp, Osbert Bastani, Saswat Anand, and Alex Aiken. Minimizing gui event traces. *FSE*, 2016.

Osbert Bastani, Saswat Anand, and Alex Aiken. An interactive approach to mobile app verification. *MobileDeLi*, 2015.

Osbert Bastani, Saswat Anand, and Alex Aiken. Interactively verifying absence of explicit information flows in android apps. *OOPSLA*, 2015.

Osbert Bastani, Saswat Anand, and Alex Aiken. Specification inference using context-free language reachability. *POPL*, 2015.

Osbert Bastani, Christopher Hillar, Dimitar Popov, and Maurice Rojas. Randomization, sums of squares, near-circuits, and faster real root counting. *Contemporary Mathematics*, 2011.

+1 (972) 822 6868 • *obastani@csail.mit.edu* • *obastani.github.io*

Honors

2018 **PLDI Distinguished Paper Award**.

2015-2017 **Google Ph.D. Fellowship**.

2012-2013 **Stanford School of Engineering Fellowship**.

Teaching

2016 **Teaching Assistant**, *Stanford University*, CS 265: Randomized Algorithms and Probabilistic Analysis.

2016 **Teaching Assistant**, *Stanford University*, CS 229T: Statistical Learning Theory.

2011 **Teaching Assistant**, *Harvard University*, Math 124: Number Theory.