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

2012-2018 Ph.D. in Computer Science, Stanford University, Stanford, CA.

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

Publications

Halley Young, Osbert Bastani, and Mayur Naik. Learning neurosymbolic generative models via program synthesis. *ICML*, 2019.

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

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

Yu Feng, Ruben Martins, Osbert Bastani, and Isil Dillig. 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.

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

Honors

- 2018 PLDI Distinguished Paper Award.
- 2015-2017 Google Ph.D. Fellowship.
- 2012-2013 Stanford School of Engineering Fellowship.

Invited Talks

- 2019 ICLR Workshop on Debugging Machine Learning Models.
- 2018 CPS Week Workshop on Design and Analysis of Robust Systems.

Service

- 2019 POPL 2020, Program Committee Member.
- 2019 NeurIPS 2019, Reviewer.
- 2019 CAV 2019, Program Committee Member.
- 2019 ICML 2019, Reviewer.
- 2018 PLDI 2019, External Program Committee Member.
- 2017 PLDI 2018, External Program Committee Member.

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.