# Osbert Bastani

Ph.D. candidate in Computer Science
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## Education

- **Stanford University (2012 to present)**
  Ph.D. candidate in Computer Science

- **Harvard University (2008 to 2012)**
  A.B. in Mathematics

## Publications

- Osbert Bastani, Yani Ioannou, Leonidas Lampropoulos, Dimitrios Vytiniotis, Aditya Nori, Antonio Criminisi. Measuring Neural Net Robustness with Constraints. NIPS 2016.
- Lazaro Clapp, Osbert Bastani, Saswat Anand, Alex Aiken. Minimizing GUI Event Traces. FSE 2016.
- Osbert Bastani, Saswat Anand, Alex Aiken. An interactive approach to mobile app verification. MobileDeLi Workshop 2015 (Invited Paper).
- Osbert Bastani, Saswat Anand, Alex Aiken. Interactively verifying absence of explicit information flows in Android apps. OOPSLA 2015.
- Osbert Bastani, Saswat Anand, Alex Aiken. Specification inference using context-free language reachability. POPL 2015.
- Osbert Bastani, Christopher Hillar, Dimitar Popov, Maurice Rojas. Randomization, sums of squares, near-circuits, and faster real root counting. Contemporary Mathematics 556 (2011): 145-166.

## Honors

- Google Ph.D. Fellowship (2015-2017)
- Stanford School of Engineering Fellowship (2012-2013)

## Work

- **Microsoft Research Cambridge Research Intern (Summer 2015)**
  Developed new algorithms for finding adversarial examples for deep neural networks

- **Google Software Engineering Intern (Summer 2014)**
  Worked on modeling the Android app life cycle and on the DeepDive static analysis infrastructure (implemented SSA, live variables analysis, points-to analysis, reachability analysis, and taint analysis)

- **Technicolor Labs Research Intern (Summer 2013)**
  Developed probabilistic extension of generalized binary search with the goal of interactive elicitation of user preferences

## Teaching

- TA for CS 265: Randomized Algorithms and Probabilistic Analysis (Stanford, Autumn 2016)
- TA for CS 229T: Statistical Learning Theory (Stanford, Winter 2016)
- TA for Math 124: Number Theory (Harvard, Spring 2011)