

## EDUCATION

- Doctor of Philosophy in Computer Science (in progress)** June 2013–Present  
*University of Massachusetts, Amherst, MA*  
Advisor: Prof. Yuriy Brun
- Master of Science in Computer Science** May 2016  
*University of Massachusetts, Amherst, MA*  
Advisor: Prof. Yuriy Brun  
GPA: 3.83 / 4.00
- Bachelor of Arts with Honors and Distinction in Computer Science** May 2013  
*Saint John's University, Collegeville, MN*  
GPA: 3.60 / 4.00  
Major GPA: 4.00 / 4.00

## PUBLICATIONS

- Visually Reasoning about System and Resource Behavior**  
Tony Ohmann, Ryan Stanley, Ivan Beschastnikh, and Yuriy Brun  
*In Proceedings of the Demonstrations Track at the International Conference on Software Engineering (ICSE), Austin, TX, USA, May 2016.*
- Detecting Latent Cross-Platform API Violations**  
Jeff Rasley, Eleni Gessiou, Tony Ohmann, Yuriy Brun, Shriram Krishnamurthi, and Justin Cappos  
*In Proceedings of the 26th IEEE International Symposium on Software Reliability Engineering (ISSRE), Gaithersburg, MD, USA, November 2015.*
- Behavioral Resource-Aware Model Inference**  
Tony Ohmann, Michael Herzberg, Sebastian Fiss, Armand Halbert, Marc Palyart, Ivan Beschastnikh, and Yuriy Brun  
*In Proceedings of the 26th IEEE/ACM International Conference On Automated Software Engineering (ASE), Vasteras, Sweden, September 2014.*
- Mining Precise Performance-Aware Behavioral Models from Existing Instrumentation**  
Tony Ohmann, Kevin Thai, Ivan Beschastnikh, and Yuriy Brun  
*In Proceedings of the New Ideas and Emerging Results Track at the International Conference on Software Engineering (ICSE NIER), Hyderabad, India, June 2014*
- Efficient Clustering-based Source Code Plagiarism Detection using PIY**  
Tony Ohmann and Imad Rahal  
*Knowledge and Information Systems (KAIS), 2014, 10.1007/s10115-014-0742-2*

## RELEVANT PROFESSIONAL EXPERIENCE

- Intern** June–September 2015  
*Google, New York, NY*

Collaborators: Jim Reardon and Celal Ziftci

- Designed and implemented a tool to find untested cross-service behavior in production

**Research Intern**

June–August 2014

*New York University, Department of Computer Science and Engineering, New York, NY*

Collaborators: Jeff Rasley, Yuriy Brun, and Justin Cappos

- Evaluated a portability violation detection technique across different languages

**Research Assistant**

May 2013–Present

*University of Massachusetts, School of Computer Science, Amherst, MA*

Project site: [cs.umass.edu/~ohmann/perfume](http://cs.umass.edu/~ohmann/perfume)

Collaborators: Michael Herzberg, Sebastian Fiss, Armand Halbert, Marc Palyart, Ivan Beschastnikh, and Yuriy Brun

- Designed, implemented, and evaluated Perfume, a resource-aware model-inference technique
- Recruited, managed, and mentored three graduate and two undergraduate students

**Computer Science Teaching Assistant**

June–July 2012

*Saint John's University, Computer Science Department, Colleagueville, MN*

**Undergraduate Research Assistant**

July 2011–May 2013

*Saint John's University, Computer Science Department, Colleagueville, MN*

Collaborator: Imad Rahal

- Developed clustering, source code plagiarism detection optimized for Non-Uniform Memory Access
- Assessed accuracy and performance on a programming assignment repository

**Undergraduate Research Assistant**

May–July 2011

*Southwest University, Beibei, Chongqing, China*

Collaborators: Fei Wu and Zhixing Huang

- Built a classifier that associates fMRI images with objects viewed by subjects

**Computer Laboratory Assistant (Manager)**

August 2009–December 2012

*Saint John's University, Colleagueville, MN*

- Hired, trained, and led a team of twenty-five software support employees
- Resolved hardware and software issues in a computer laboratory

**Co-founder and Co-owner**

June 2006–December 2012

*Obros Computers, Albany, MN*

- Planned, built, and serviced personal computers
- Designed and implemented contracted, commercial web design projects

**HONORS AND RECOGNITIONS**

- Trustees' Scholarship (Highest Academic Scholarship), *Saint John's University* Fall 2009–Spring 2013
- Inspiring Leaders Recognition, *Saint John's University* Fall 2012
- Dean's List, *Saint John's University* Spring 2011–Fall 2012

- Honors Program, *Saint John's University*
- Distinction in Computer Science, *Saint John's University*

Fall 2009–Spring 2013

Spring 2013

#### HIGHLIGHTED TECHNICAL SKILLS

- Proficient in: Java, C, C++, Python, Go, JavaScript, MySQL, Perl