

Caius Brindescu

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Profile

I am a sixth year PhD student at Oregon State University. I am studying Computer Science and my main interests include software evolution and version control systems. I am also interested in automated program transformation and program analysis. My main research goal is to make developer's lives easier by developing tools that aid in program comprehension and enable an easier way to work with software changes.

Education

- 2013 - present **PhD in Computer Science at Oregon State University**
Research Interests: Software evolution and version control systems. I am continuing the PhD I started at UIUC and I working with Dr. Carlos Jensen.
- 2012 - 2013 **PhD in Computer Science at University of Illinois at Urbana-Champaign**
Research Interests: Software evolution and software design. I worked with Dr. Danny Dig.
- 2007 - 2011 **Bachelor of Science in Computer Engineering at "Politehnica" University, Timișoara**
Subjects studied: Software Engineering, Object Oriented Programming, Operating Systems, Databases.

Work Experience

- 03/12 - 07/12 Research Engineer at **Politehnica Univesity of Timișoara** and Software Engineer at **Movidius Inc**
Responsibilities: Joint project between the university and Movidius. My task was implementing an Eclipse based IDE to support multi-core debugging of embedded systems.
- Summer 2011 Internship at **University of Illinois at Urbana-Champaign** under the supervision of Danny Dig.
Responsibilities: Extending the existing *ReLooper* tool with a way to solve data-races via privatization. It is built as an Eclipse plugin and uses the WALA framework for static analysis.
- Summer 2009 & Summer 2010 Internship at **Politehnica University of Timișoara** under the supervision of Radu Marinescu
Responsibilities: Researching a method to use automated refactoring to solve bad smells in code. Determining the right refactoring strategy was done using metric-based algorithms. Looked for applications in the Refuse Parent Bequest design flaw. I also implemented a refactoring engine to be used to improve the design of software products.
- Summer 2008 Internship at **Incremental SRL**
Responsibilities: Servicing computers

Teaching Experience

- Spring 2018 Teaching Assistant for Lab Studies in SE and HCI (CS 567) at Oregon State University
Instructor: Anita Sarma
Responsibilities: Office hours, grading and creating assignments. I am also supervising student teams for their class project.
- Winter 2018 Teaching Assistant for Software Engineering II (CS 362) at Oregon State University
Instructor: Ali Aburasa
Responsibilities: Office hours and grading.
- Fall 2017 Teaching Assistant for Software Engineering I (CS 361) at Oregon State University
Instructor: Anita Sarma
Responsibilities: Office hours, grading and preparing assignments.
- Summer 2017 Instructor for Web Development (CS 290) at Oregon State University
Responsibilities: Preparing lecture material and designing the assignments, lecturing and office hours.
- Spring 2017 Teaching Assistant for Empirical Software Engineering (CS 569) and Advanced Software Engineering (CS 562) at Oregon State University
Instructor: Anita Sarma and Danny Dig
Responsibilities: Office hours and grading
- Winter 2017 Teaching Assistant for Mobile and Cloud Development (CS 498) and Empirical Software Engineering (CS 569) at Oregon State University
Instructor: Justin Wolford and Anita Sarma
Responsibilities: Office hours and grading
- Fall 2016 Teaching Assistant for Software Engineering I (CS 361) at Oregon State University
Instructor: Alex Groce
Responsibilities: Office hours and grading
- Spring, Summer 2016 Teaching Assistant for the online version of Senior Software Projects (CS 419) at Oregon State University
Instructor: Benjamin Brewster
Responsibilities: Monitoring the teams progress and grading
- Winter 2016 Teaching Assistant for Operating Systems I (CS 344) at Oregon State University
Instructor: Benjamin Brewster
Responsibilities: Office hours and grading
- Fall 2015 Teaching Assistant for Software Engineering I (CS 361) at Oregon State University
Instructor: Anita Sarma
Responsibilities: Office hours and grading
- Summer 2015 Teaching Assistant for the online version of Software Engineering I (CS 361) at Oregon State University.
Instructor: Iftekhar Ahmed
Responsibilities: Grading
- Spring 2015 Teaching Assistant for Software Engineering II (CS 362) at Oregon State University.
Instructor: Alex Groce
Responsibilities: Grading and holding office hours.

- Winter 2015 Teaching Assistant for Software Engineering I (CS 361) at Oregon State University.
Instructor: Danny Dig
Responsibilities: Creating and grading homework. Mentoring teams of four students and helping them make constant progress throughout the term.
- Fall 2014 Instructor for Seminar: Grad Intro (CS 507) at Oregon State University
Supervising professor: Bella Bose
Responsibilities: Holding a 50-minute lecture each week about topics relating to the graduate program (e.g. doing literature searches, preparing a presentation etc.)
- Spring 2013 Teaching Assistant for Software Engineering II (CS 428) at University of Illinois at Urbana-Champaign.
Instructor: Danny Dig
Responsibilities: Creating and grading homeworks. Mentoring teams of eight students so they make constant progress on their class project.
- Fall 2012 Teaching Assistant for Software Engineering I (CS 427) at University of Illinois at Urbana-Champaign.
Instructor: Ralph Johnson
Responsibilities: Creating and grading homeworks. Supervising student teams for the class project.

Publications

- ESEM '17** **An Empirical Examination of Code Smells and Their Impact on Collaborative Work**
 Iftexhar Ahmed, Caius Brindescu, Umme Ayda Mannan, Carlos Jensen, Anita Sarma
International Symposium on Empirical Software Engineering and Measurement, Toronto, Ontario, Canada, November 2017.
 Acceptance rate: 26% (74/273)
- FSE '16** **Can Testedness be Effectively Measured?**
 Iftexhar Ahmed, Rahul Gopinath, Caius Brindescu, Alex Groce, Carlos Jensen
International Symposium on the Foundations of Software Engineering, Seattle, WA, USA, November 2016.
 Acceptance rate: 26% (74/273)
- ICSE '14** **How Do Centralized and Distributed Version Control Systems Impact Software Changes?**
 Caius Brindescu, Mihai Codoban, Sergii Shmarkatiuk, Danny Dig
International Conference on Software Engineering, Hyderabad, India, May 2014
 Acceptance rate: 20% (99/499)

Service

I served as an external reviewer for the following conferences: ECOOP '15, ASE '14, ECOOP '13, ASE '17, and the ASE '17 Tool Demos. I was also a student volunteer for OOPSLA '14 and FSE '16.

I was on Program Committee for the Tool Track at SCAM '15, the Mining Challenge at MSR '17 and the Showpiece track at VL/HCC '17.

Invited talks

- 10/2014** *How do Centralized and Distributed Version Control Systems Impact Software Changes?*
Talk in CS 561 (Software Engineering) at Oregon State University. Host: Danny Dig
- 09/2012** *Code Smells*
Lecture in CS 427 (Software Engineering I) at University of Illinois at Urbana-Champaign.
Host: Ralph Johnson