Caius Brindescu

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Profile

I am a seventh 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, Timişoara
	Subjects studied: Software Engineering, Object Oriented Programming, Operating Systems, Databases.

Work Experience

work Experience	
06/18 - 09/18	Software Engineer at Etleap Inc. Responsibilities: Develop a proof of concept integration with data privacy services; Implement new features and extend existing features; Support and bugfixing
03/12 - 07/12	Research Engineer at Politehnica Unive sity of Timişoara and Software Engineer at Movidius ${\bf Inc}$
	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 ${f Politehnica}$ ${f University}$ of ${f Timisoara}$ 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

Fall 2018 Instructor for Software Engineering I (CS 361) at Oregon State University

Responsibilities: Prepare lecture material and assignments, organize and coordinate

student projects, office hours and mentoring.

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 Responsibilites: 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

ESEJ The Life-Cycle of Merge Conflicts: Processes, Barriers, and Strategies

To Appear Nicholas Nelson, Caius Brindescu, Shane McKee, Anita Sarma, Danny Dig

Empirical Software Engineering Journal

ESEM '17 An Empirical Examination of Code Smells and Their Impact on Collaborative

Work

Iftekhar 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?

Iftekhar 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, ASE '17 Tool Demos and ICSE '19. I was also a student volunteer for OOPSLA '14, FSE '16 and FSE '18.

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