

# Christopher S. Corley

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Department of Computer Science    cscorley@crimson.ua.edu  
The University of Alabama            http://christop.club  
Tuscaloosa, AL 35487-0290, USA

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## Research Interests

Software maintenance and evolution, machine learning in software engineering, mining software repositories, program comprehension, automating software engineering

## Education

University of Alabama, Tuscaloosa, Alabama, USA

- PhD Computer Science, *expected* May 2016
- Chair: Jeffrey C. Carver
- Advisor: Nicholas A. Kraft

University of Alabama, Tuscaloosa, Alabama, USA

- MS Computer Science, August 2014
- Advisor: Nicholas A. Kraft

University of North Alabama, Florence, Alabama, USA

- BS Computer Science, May 2011

## Professional Experience

ABB U.S. Corporate Research Center in Raleigh, NC, 2015

- Visiting Researcher

University of North Alabama, Mathematics & Computer Science, 2010 – 2011

- Undergraduate Lab Assistant

University of North Alabama, Academic Resource Center, 2008 – 2011

- Undergraduate Computer Science Tutor

## Fellowships and Awards

Graduate Assistance in Areas of National Need (GAANN) Doctoral Fellowship, 2011 – 2016

Research Assistantship – Improved Code Clone Categorization (NSF 0915559 & 0915403), 2011

Research Experience for Undergraduates, 2009 & 2010

## Publications

### Refereed Conference and Workshop Proceedings

- C.S. Corley**, K.L. Kashuda, and N.A. Kraft, “Modeling Changeset Topics for Feature Location”, *31st International Conference on Software Maintenance and Evolution (ICSME’15)*, Bremen, Germany, 10 pages, September 2015 (acceptance rate: 22%).
- C.S. Corley**, K. Damevski, and N.A. Kraft, “Exploring the Use of Deep Learning for Feature Location”, *31st International Conference on Software Maintenance and Evolution (ICSME’15)* Early Research Achievements track, Bremen, Germany, 5 pages, September 2015 (acceptance rate: 35%).
- C.S. Corley**, F. Lois, and S.F. Quezada, “Web Usage Patterns of Developers”, *31st International Conference on Software Maintenance and Evolution (ICSME’15)* Industry track, Bremen, Germany, 10 pages, September 2015 (acceptance rate: 36%).
- C.S. Corley**, K.L. Kashuda, D.S. May, and N.A. Kraft, “Modeling Changeset Topics”, *4<sup>th</sup> Workshop on Mining Unstructured Data (MUD’14)*, Victoria, British Columbia, Canada, 5 pages, September 2014.
- N. Klein, **C.S. Corley**, and N.A. Kraft, “New Features for Duplicate Bug Detection”, *11<sup>th</sup> Working Conference on Mining Software Repositories (MSR’14)*, Hyderabad, India, 4 pages, May 2014 (acceptance rate: 37% for short papers).
- A. Bosu, **C.S. Corley**, D. Heaton, D. Chatterji, J.C. Carver, and N.A. Kraft, “Building Reputation in StackOverflow: An Empirical Investigation”, *10<sup>th</sup> Working Conference on Mining Software Repositories (MSR’13)* Mining Challenge, San Francisco, California, USA, 4 pages, May 2013 (acceptance rate: 41%).
- C.S. Corley**, E.A. Kammer, and N.A. Kraft, “Modeling the Ownership of Source Code Topics,” *Proceedings of the 20<sup>th</sup> IEEE International Conference on Program Comprehension (ICPC’12)*, Passau, Bavaria, Germany, 10 pages, June 2012 (acceptance rate 41%).
- C.S. Corley**, N.A. Kraft, L.H. Etzkorn, and S.K. Lukins, “Recovering Traceability Links between Source Code and Fixed Bugs via Patch Analysis,” *Proceedings of the 6<sup>th</sup> International Workshop on Traceability in Emerging Forms of Software Engineering*, (TEFSE’11), Honolulu, Hawaii, USA, 7 pages, May 2011 (acceptance rate 44%).

## Professional Activities

### Program Committee Member

- 31<sup>st</sup> International Conference on Software Maintenance and Evolution – Tool Demo Track (ICSME’15)
- 30<sup>th</sup> International Conference on Software Maintenance and Evolution – Tool Demo Track (ICSME’14)
- 50<sup>th</sup> ACM Southeast Conference (ACMSE’12)

## External Reviewer

- 31<sup>st</sup> International Conference on Software Maintenance and Evolution – Early Research Achievements Track (ICSME’15)
- 8<sup>th</sup> IEEE International Conference on Software Testing, Verification, and Validation (ICST’15)
- 4<sup>th</sup> International Workshop on Combinatorial Testing (IWCT’15)
- 30<sup>th</sup> International Conference on Software Maintenance and Evolution – Early Research Achievements Track (ICSME’14)
- 7<sup>th</sup> International Workshop on Traceability in Emerging Forms of Software Engineering (TEFSE’13)

## Conference and Workshop Attendance

- 31<sup>st</sup> IEEE International Conference on Software Maintenance and Evolution (ICSME’15)
- 30<sup>th</sup> IEEE International Conference on Software Maintenance and Evolution (ICSME’14)
- 4<sup>th</sup> Workshop on Mining Unstructured Data (MUD’14)
- 11<sup>th</sup> Working Conference on Mining Software Repositories (MSR’14)
- 22<sup>nd</sup> IEEE International Conference on Program Comprehension (ICPC’14)
- 20<sup>th</sup> IEEE International Conference on Program Comprehension (ICPC’12)
- 50<sup>th</sup> ACM Southeast Conference (ACMSE’12)
- 27<sup>th</sup> IEEE International Conference on Software Maintenance (ICSM’11)
- 8<sup>th</sup> Working Conference on Mining Software Repositories (MSR’11)
- 6<sup>th</sup> International Workshop on Traceability in Emerging Forms of Software Engineering (TEFSE’11)
- 48<sup>th</sup> ACM Southeast Conference (ACMSE’10)

## Professional Memberships

- IEEE, 2011 – 2015
- IEEE Computer Society, 2011 – 2015
- Association for Computing Machinery, 2008 – 2015
  - Local chapter (University of North Alabama) Student President, 2009 – 2011
- ACM Special Interest Group on Software Engineering (SIGSOFT), 2012 – 2015

## Teaching

- Assistant*, CS 250 - Programming II (Fall 2013, Spring 2014)
  - Primary Instructor: Nicholas A. Kraft
- Assistant*, CS 315 - Software Engineering (Spring 2013)
  - Primary Instructor: Nicholas A. Kraft
  - 100P course

## Academic Service

Graduate Student Association Department Representative, 2014

### Mentoring

Research Experience for Undergraduates Mentor, 2011 – 2014

- 2014: Daniel S. May (BS student, Computer Science, Swarthmore College), Kelly L. Kashuda (BS student, Computer Science, University of Alabama)
- 2013: Nathan Klein (BS student, Computer Science, Oberlin College)

Tide Together Peer Mentor, 2012 – 2014

- 2014: Reginald L. Tucker (PhD student, Management, University of Alabama)
- 2013: Erik R. Kline (PhD student, English, University of Alabama)
- 2012: Matthew Jones (MFA student, Creative Writing, University of Alabama)

Tide Together Peer Mentor Student Leader, 2014 – 2015

- 2014: Natasha Aduloju-Ajijola, Ana Rondon, Gabby Smith, Jean Swindle, Pandora White

### Volunteering

30<sup>th</sup> IEEE International Conference on Software Maintenance and Evolution (ICSME'14) Student Volunteer, 2014

4<sup>th</sup> Workshop on Mining Unstructured Data (MUD'14) Student Volunteer, 2014

Alabama Robotics Competition Assistant & Judge, 2012 – 2015

Graduate Orientation and Welcome Volunteer, Fall 2014

Tuscaloosa Public Library Teen Zone: GeoTech Lab, Summer 2014

Women in STEM Experience Student Volunteer, Fall 2013

50<sup>th</sup> ACM Southeast Conference (ACMSE'12) Student Volunteer, 2012