YU SUN, Ph.D.

Assistant Professor
Computer Science Department
California State Polytechnic University, Pomona

3801 West Temple Avenue, Bld. 8-15
Pomona, CA 91768

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EDUCATION

University of Alabama at Birmingham   Birmingham, AL
Ph.D. in Computer Science   December 2011

Major Field of Study: Software Engineering

Thesis: *Model Transformation By Demonstration: An End-User Centric Approach to Support Model Evolution*

Committee: Dr. Jeff Gray (Advisor), Dr. Barrett Bryant, Dr. Jules White,
            Dr. Marjan Mernik, Dr. Purushotham Bangalore, Dr. Chengcui Zhang

University of Alabama at Birmingham   Birmingham, AL
M.S. in Computer Science   May 2009

Zhengzhou University   Zhengzhou, China
B.S. in Computer Science   May 2007

PUBLICATIONS

Refereed Journals

1. **Yu Sun**, Jules White, Bo Li, Michael Walker, and Hamilton Turner, "Automated QoS-Oriented Cloud Resource Optimization using Containers," *Automated Software Engineering (Special Issue on Automation in Software Performance Engineering)*, 2016 (accepted for publication)

2. Hyojoon Bae, Jules White, Mani Golparvar-Fard, Yao Pan, **Yu Sun**, "Fast and Scalable 3D Cyber-physical Modeling for High-precision Mobile Augmented Reality Systems", *Springer Journal of Personal and Ubiquitous Computing*, 2016 (accepted for publication)

3. Thaddeus Czauski, Jules White, **Yu Sun**, Sean Eade, Douglas C. Schmidt, "NERD – Middleware for IoT Human Machine Interfaces", *Annals of Telecommunications*, 2016 (accepted for publication)

4. **Yu Sun**, Jules White, Sean Eade, and Douglas C. Schmidt, "ROAR: A QoS-Oriented Modeling Framework for Automated Cloud Resource Allocation and Optimization," *Journal of Systems and Software*, 2015 (accepted for publication)

5. Max Robert, **Yu Sun**, Thomas Goodwin, Hamilton Turner, Jeff Reed, and Jules White, "Software Frameworks for SDR," *Proceedings of IEEE*, vol.103, no.3, pp. 452-475, March 2015, doi: 10.1109/JPROC.2015.2391176

6. **Yu Sun**, Jeff Gray, and Jules White, "A Demonstration-based Model Transformation Approach to Automate Model Scalability," *Journal of Software and Systems Modeling,* DOI: 10.1007/s10270-013-0374-0, 2013.

7. **Yu Sun**, Jeff Gray, Romain Delamare, and Benoit Baudry, "Automating the Management of Non-functional System Properties using Demonstration-based Model Transformation," *Journal of Software: Evolution and Process*, DOI: 10.1002/smr.1606, vol. 25, no. 12, 2013, pp. 1335-1356.

8. Zekai Demirezen, **Yu Sun**, Jeff Gray, and Frédéric Jouault, "Enabling Tool Reuse and Interoperability through Model-Driven Engineering," *Journal of Computational Methods in Science and Engineering (JCMSE)*, vol. 10, no. 2, September 2010, pp. 187-202.

9. Hyojoon Bae, Michael Walker, Jules White, Yao Pan, **Yu Sun**, and Mani Golparvar-Fard, "Fast and Scalable Structure-from-Motion based Localization for High-precision Mobile Augmented Reality Systems," *IEEE Transactions On Mobile Computing*, 2014 (Under review)

Book Chapters

10. **Yu Sun**, Jeff Gray, Gerti Kappel, Philip Langer, Manuel Wimmer, and Jules White, "A WYSIWYG Approach to Support Layout Configuration in Model Evolutions," *Emerging Technologies for the Evolution and Maintenance of Software Models*, edited by Jörg Rech and Christian Bunse, Idea Group, ISBN: 978-1-61350-438-32012, 2012, Chapter 4, pp. 92-120.

11. **Yu Sun**, Jules White, Jeff Gray, and Aniruddha Gokhale, "Model-Driven Automated Error Recovery in Cloud Computing," *Model-driven Analysis and Software Development: Architectures and Functions*, edited by Janis Osis and Erika Asnina, Idea Group, ISBN: 978-161692-874-2, 2011, Chapter 7, pp. 136-155.

Refereed Conference Papers

12. Sean Chen, **Yu Sun**, Gilbert Young, "Enhancing the Kinesthetic Learning Activities (KLA) in CS Education Using Mobile Applications", *the Annual Conference on Innovation and Technology in Computer Science Education (ITCSE)*, Arequipa, Peru, 2016

13. Roshan Rathod, **Yu Sun**, "A Model-Driven Approach to Automate the Development of Communication Channels for Internet of Things Applications", *International Conference on Internet of Things and Applications (IOTA)*, Pune, India, January, 2016.

14. Jonathan Bassi, Sukanya Manna and **Yu Sun**, "Construction of a Geo-Location Service Utilizing Microblogging Platforms", *IEEE International Conference on Semantic Computing (ICSC)*, Laguna Hills, CA, Feburary 2016.

15. Yao Pan, Jules White, **Yu Sun**, and Jeff Gray, "Gray Computing: Assessing the Potential of Distributed Data Processing in Web Browsers", *International Conference on Software Engineering (ICSE)*, Florence, Italy, May 2015. (18% Acceptance Rate)

16. **Yu Sun**, Hyojoon Bae, Sukanya Manna, Jules White and Mani Golparvar-Fard, "Bridging Semantics with Physical Objects using Augmented Reality", *IEEE International Conference on Semantic Computing (ICSC)*, Anaheim, CA, Feburary 2015.

17. **Yu Sun**, Jules White, and Sean Eade, "A Model-Based System to Automate Cloud Resource Allocation and Optimization", *International Conference on Model Driven Engineering Languages and Systems (MoDELS),* Valencia, Spain, October 2014, pp. 18-34.

18. **Yu Sun** and Jeff Gray, "Model Transformation By Demonstration Debugger: End-User Support for Debugging Model Transformation Execution", *European Conference on Modeling Foundations and Applications*

(ECMFA), Springer-Verlag LNCS 7949, Montpellier, France, July 2013, pp. 86-100. (23% Acceptance Rate)

19. **Yu Sun**, Jeff Gray, Karlheinz Bulheller, and Nicolaus Von Baillou, "A Model-Driven Approach to Support Engineering Changes in Industrial Robotics Software", *International Conference on Model Driven Engineering Languages and Systems (MoDELS),* Springer-Verlag LNCS 7590, Innsbruck, Austria, October 2012, pp. 368-382. (23% Acceptance Rate)

20. Xianjun Sam Zheng, Stefan Christov, **Yu Sun**, and Xiping Song, "UWoN (User Workflow Notation): A Visualization Tool for User Workflow Analysis and Modeling for Developing Healthcare IT," *International Symposium on Human Factors and Ergonomics in Health Care: Bridging the Gap,* Baltimore, MD, March 2012.

21. **Yu Sun**, Jeff Gray, Christoph Wienands, Michael Golm, and Jules White, "A Demonstration-based Approach to Support Live Transformations in a Model Editor," *International Conference on Model Transformation (ICMT),* Springer-Verlag LNCS 6707, Zurich, Switzerland, June 2011, pp. 213-227. (21% Acceptance Rate)

22. Ferosh Jacob, **Yu Sun**, Jeff Gray, and Puri Bangalore, "A Platform-Independent Tool for Modeling Parallel Programs," *ACM Southeast Conference,* Kennesaw, GA, March 2011, pp. 138-143.

23. **Yu Sun**, Christoph Wienands, and Meik Felser, "Applying Model-Driven Design and Development to Distributed Time-Triggered Systems," *International Conference on Engineering and Meta-Engineering (ICEME),* Orlando, FL, March 2011.

24. **Yu Sun**, Jules White, and Jeff Gray, "Model Transformation by Demonstration," *International Conference on Model Driven Engineering Languages and Systems (MoDELS),* Springer-Verlag LNCS 5795, Denver, CO, October 2009, pp. 712-726. (18% Acceptance Rate)

25. Zekai Demirezen, **Yu Sun**, Jeff Gray, and Frederic Jouault, "Supporting Tool Reuse with Model Transformation," *International Conference on Software and Data Engineering (SEDE),* Las Vegas, NV, June 2009, pp. 119-125.

26. **Yu Sun**, Zekai Demirezen, Frédéric Jouault, Robert Tairas, and Jeff Gray, "A Model Engineering Approach to Tool Interoperability," *International Conference on Software Language Engineering (SLE),* Springer-Verlag LNCS 5452, Toulouse, France, September 2008, pp. 178-187.

27. Ritu Arora, **Yu Sun**, Zekai Demirezen, and Jeff Gray, "Profiler Instrumentation Using Metaprogramming Techniques," *ACM Southeast Conference,* Auburn, AL, March 2008.

Refereed Workshop Papers

28. Hyun Cho, Jeff Gray, and **Yu Sun**, "Quality-Aware Academic Research Tool Development," *International Workshop on Software Quality and Management (SQAM),* held at the Asia-Pacific Software Engineering Conference (APSEC), Hong Kong, December 2012.

29. **Yu Sun**, Hyun Cho, Jeff Gray, and Jules White, "Assisting Feature Model Configuration Knowledge Reuse using Demonstration-based Model Transformation," *Workshop on Product Line Approaches in Software Engineering (PLEASE),* held at ICSE 2011, Honolulu, HI, May 2011.

30. Hyun Cho, **Yu Sun**, Jules White, and Jeff Gray, "Key Challenges for Modeling Language Creation By Demonstration," *Workshop on Flexible Modeling Tools,* held at International Conference on Software Engineering 2011, Honolulu, HI, May 2011.

31. **Yu Sun**, Jeff Gray, Philip Langer, Manuel Wimmer, and Jules White, "A WYSIWYG Approach for Configuring Model Layout using Model Transformations," *10th Workshop on Domain-Specific Modeling (DSM)*, held at SPLASH 2010, Reno, NV, October 2010.

32. **Yu Sun**, Jeff Gray, and Jules White, "MT-Scribe: A Flexible Tool to Support Model Evolution," *Workshop on Flexible Modeling Tools (FlexiTools)*, held at SPLASH 2010, Reno, NV, October 2010.

33. **Yu Sun**, Zekai Demirezen, Marjan Mernik, Jeff Gray, and Barrett Bryant, "Is My DSL a Modeling or Programming Language?" *Workshop on Domain-Specific ProgramDevelopment (DSPD), held at International Conference on Generative Programming and Component Engineering (GPCE)*, Nashville, TN, October 2008.

34. **Yu Sun**, Zekai Demirezen, Tomaz Lukman, Marjan Mernik, and Jeff Gray, "Model Transformations Require Formal Semantics," *Workshop on Domain-Specific Program Development (DSPD), held at International Conference on Generative Programming and Component Engineering (GPCE)*, Nashville, TN, October 2008.

Doctoral Symposia

35. **Yu Sun**, "Model Transformation by Demonstration," *Doctoral Symposium, International Conference on Object-Oriented Programming, Systems, Languages and Applications (OOPSLA)*, Orlando, FL, October 2009.

36. **Yu Sun**, "Model Transformation by Demonstration," *Doctoral Symposium, International Conference on Model Driven Engineering Languages and Systems (MoDELS)*, Denver, CO, October 2009.

Tool Demonstrations

37. **Yu Sun**, Jeff Gray, and Jules White, "MT-Scribe: An End-User Approach to Automate Software Model Evolution," *Tool Demonstration, International Conference on Software Engineering (ICSE)*, Honolulu, HI, May 2011.

38. **Yu Sun**, Jules White, and Jeff Gray, "MT-Scribe: A Tool for Recording and Inferring Model Transformations," *Tool Demonstration, International Conference on Object-Oriented Programming, Systems, Languages and Applications (OOPSLA)*, Orlando, FL, October 2009.

Posters

39. **Yu Sun**, "An End-User Demonstration Approach to Support Aspect-Oriented Modeling," *Student Research Competition, International Conference on Software Engineering (ICSE)*, Honolulu, HI, May 2011. (Top 5 Finalist in ACM SIGSOFT Student Research Competition, 2011)

40. **Yu Sun**, "Model Scalability Using a Model Recording and Inference Engine," *Students Research Competition, International Conference on Object-Oriented Programming, Systems, Languages and Applications (SPLASH/OOPSLA)*, Reno, NV, October 2010.

41. **Yu Sun**, "Supporting Model Evolution through Demonstration-based Model Transformation," *Students Research Competition, International Conference on Object-Oriented Programming, Systems, Languages and Applications (OOPSLA)*, Orlando, FL, October 2009. (Top 5 Finalist in ACM SIGPLAN Student Research Competition, 2009)

Ph.D. Dissertation

42. **Yu Sun**, "Model Transformation By Demonstration: An End-User Centric Approach to Support Model Evolution," *Ph.D. Dissertation*, Department of Computer and Information Sciences, the University of Alabama at Birmingham, Birmingham, AL, December 2011.

Abstracts

43. **Yu Sun**, Jeff Gray, Barrett Bryant, "Supporting Aspect-Oriented Modeling through a Demonstration-based Model Transformation Approach," *88th Annual Meeting of the Alabama Academy of Science*, Jacksonville, AL, March 2011. (Best Student Paper Award)

44. **Yu Sun**, "An End-User Demonstration Approach to Support Aspect-Oriented Modeling," *UAB Graduate Student Research Days*, Birmingham, AL, February 2011.

45. **Yu Sun**, "A Demonstration-based Model Transformation Approach to Support Model Scalability," *UAB Graduate Student Research Days*, Birmingham, AL, February 2010.

46. **Yu Sun**, "Demonstration-based Inference of Model Transformations," *ACM Mid-Southeast Conference*, Gatlinburg, TN, November 2009.

47. **Yu Sun**, "Model Transformation by Demonstration," *UAB Graduate Student Research Days*, Birmingham, AL, February 2009.

48. **Yu Sun**, "Homogenizing Tool-specific Formats using Model Transformations," *UAB Graduate Student Research Days*, Birmingham, AL, February 2008.

WORK EXPERIENCES

California State Polytechnic University, Pomona
Computer Science Department
Assistant Professor

Pomona, CA
September 2014 – Present

Ziiio Inc.
Co-Founder

Nashville, TN
August 2014 – Present

Vanderbilt University
Post-Doc Research Associate

Nashville, TN
February 2014 – August 2014

PAR Works Inc.
Director of Engineering

Nashville, TN
November 2012 – January 2014

Amazon.com
Amazon Web Services (AWS)
Amazon Silk & Kindle Fire

Software Development Engineer

Seattle, WA
December 2011 – November 2012

Amazon.com
Amazon Web Services (AWS)
CloudFront & Route 53

Software Development Engineer Intern

Seattle, WA
June 2011 – August 2011

Siemens Corporate Research	Princeton, NJ
Department of Software & Systems Engineering Technologies	March 2010 – August 2010

Research Intern

University of Alabama	Tuscaloosa, AL
Department of Computer Science	September 2010 – May 2011

Visiting Scholar

University of Alabama at Birmingham	Birmingham, AL
Department of Computer and Information Sciences	August 2007 – present

Research Assistant

AWARDS AND HONORS

Competition Awards

- **Consumer Electronic Show** (CES) Innovation Award for PAR Works (2013)
- Technical Achievement Finalist at **SXSW** for PAR Works (2013)
- Accelerator Award Finalist at **SXSW** for PAR Works (2013)
- US People's Choice Award, Software Design Competition, **Microsoft Imagine Cup** (2009)
  Project: PDADoctor
- US Top 15 Finalist, Software Design Competition, **Microsoft Imagine Cup** (2009)
  Project: PDADoctor
- Finalist in **Alabama Launchpad** (2011)
  Project: Automax
  Collaborated with Bulheller Consulting Inc. and University of Alabama
- Best Student Paper Award in **88th Annual Meeting of the Alabama Academy of Science** (2011)
  Paper: Supporting Aspect-Oriented Modeling through a Demonstration-based Model Transformation Approach
- Top 5 Finalist in **ACM SIGSOFT Student Research Competition** (2011)
  International Conference on Software Engineering (ICSE)
  Project: An End-User Demonstration Approach to Support Aspect-Oriented Modeling
- Top 5 Finalist in **ACM SIGPLAN Student Research Competition** (2009)
  International Conference on Object-Oriented Programming, Systems, Languages and Applications (OOPSLA)
  Project: Supporting Model Evolution Through Demonstration-based Model Transformation
- 3rd place in **ACM Mid-Southeast Conference Student Paper Competition** (2009)
  Paper: Demonstration-based Inference of Model Transformations
- 3rd place in **BearingPoint Annual Intercollegiate Programming Competition** (2008)
  With team members: Yu Chang and Walker Haddock
- 3rd place in **ACM Southeast USA Regional Programming Contest** (2007)
  With team members: Yu Chang and Walker Haddock

Travel Grants

- From ACM SIGCSE to attend SIGCSE Symposium (2014)

- From ACM SIGSOFT CAPS to attend ICSE (2011)
- From ACM SIGSOFT to attend ICSE Student Research Competition (2011)
- From Alabama Academy of Science (AAS) to attend 88th Annual AAS Meeting (2011)
- From ACM SIGPLAN to attend SPLASH/OOPSLA Student Research Competition (2010)
- From ACM SIGSOFT CAPS to attend MODELS (2009)
- From ACM SIGPLAN to attend OOPSLA Student Research Competition (2009)
- From UAB GSA to attend OOPSLA (2009, 2008)

Graduate Awards

- Passed Ph.D. Level 1 Qualifying Exam "With Distinction" (2009)
- 2nd place in the Mathematics and Computer and Information Sciences session at the UAB Graduate Student Research Days (2008)

Undergraduate Awards

- GPA Ranking 1st in Computer Science Major Award (2007)
- Excellent Student Scholarship (2003 – 2007)
- Honor Student (2004 – 2007)
- Excellent Student Leader Award (2004- 2007)

PATENTS

- Provisional patent application. *UWoN (User Workflow Notation): A Formal Workflow-driven Approach for Interactive System Design.* (09/24/2010) File No. 61/386,048 (2010P19859 US).

INVITED TALKS

- Amazon Silk brown bag seminar, Seattle, WA, "Introduction to Model-Driven Engineering", August, 2012
- Siemens Corporate Research, Princeton, NJ, "A Practical Perspective on Domain-Specific Modeling - The Good, the Bad, and the Cautious," September, 2011
- Tsinghua University, Beijing, China, "Domain-Specific Modeling and Model Transformation By Demonstration," May, 2011

PROFESSIONAL ACTIVITIES

Reviewer-Journals
- Automated Software Engineering Journal (2014)
- Computer Languages, Systems & Structures (2014)
- IEEE Software (2013)
- Proceedings of the IEEE (2013)
- Journal of Software and Systems Modeling (2011, 2010)
- Journal of Systems and Software (2011)

Reviewer-Books
- Emerging Technologies for the Evolution and Maintenance of Software Models, Idea Group (2011)
- Model-driven Analysis and Software Development: Architectures and Functions, Idea Group (2009)

Reviewer-Conferences
- International Conference on Software Engineering (2015)
- ACM SIGCHI Symposium on Engineering Interactive Computing Systems (2015)
- International Conference on Model Driven Engineering Languages and Systems (2015, 2014, 2012, 2011, 2010, 2009)
- International Joint Conference on Software Technologies (2014)
- International Conference on Objects, Models, Components, and Patterns (2011, 2010, 2009)
- International Conference on Object-oriented Programming, System, Languages, and Applications (2011, 2008)
- Onward at SPLASH (2010)
- International Conference on Software Composition (2010)
- International Conference on Generative Programming and Component Engineering (2015, 2010)
- International Conference on Aspect-oriented Software Development (2010, 2009, 2008)
- International Conference on Software Language Engineering (2013, 2010, 2008)
- International Conference on Service Oriented Computing (2009)
- IFIP Working Conference on Domain Specific Languages (2009)
- European Conference on Model-Driven Architecture (2008)
- ACM Southeast Conference (2008)

External Committees
- Publicity Chair
  Software Product Line Conference (2015)
- Program Committee
  The 19th International Software Product Line Conference (2015)
- Program Committee
  MobileDeLi Workshop: Mobile Development Lifecycle (2015)
- Program Committee
  Workshop on Modeling in Software Engineering at International Conference on Software Engineering (2015)
- Program Committee
  The 13th IEEE International Conference on Embedded and Ubiquitous Computing (2015)
- Program Committee
  The 2015 Thailand Workshop on Software Engineering at The Tenth International Conference on Knowledge, Information and Creativity Support Systems (2015)
- Program Committee
  Workshop on Domain-Specific Modeling at ACM SIGPLAN Conference on Systems, Programming, Languages and Applications: Software for Humanity (2015)
- Program Committee
  Workshop on Domain-Specific Modeling at ACM SIGPLAN Conference on Systems, Programming, Languages and Applications: Software for Humanity (2014)

Service

- Student Volunteer
  International Conference on Object-Oriented Programming, Systems, Languages, and Applications (2010, 2009, 2008)
- Senator
  Graduate Student Association, University of Alabama at Birmingham (2009 – 2011)

Conferences / Meetings Attended

- International Conference on Semantic Computing (2015)
- ACM Technical Symposium on Computer Science Education (SIGCSE) (2015)
- International Software Product Line Conference (2015)
- CSU Symposium on University Teaching (2015)
- SoCal PKAL Meeting (2015)
- SoCal Innovation Forum (2015)
- International Conference on Model Driven Engineering Languages and Systems (2014, 2009)
- European Conference on Modeling Foundations and Applications (2013)
- European Conference on Object-Oriented Programming (2013)
- Augmented World Expo (2013)
- South by Southwest (2013)
- Consumer Electronics Show (2013)
- International Conference on Software Engineering (2011)
- International Conference on Object-oriented Programming, System, Languages, and Applications (2010, 2009, 2008)
- International Symposium on the Foundations of Software Engineering (2010)
- International Workshop on Domain-Specific Program Development (2008)
- International Workshop on Domain-Specific Modeling (2010, 2009, 2008)
- Alabama Academy of Science Annual Meeting (2011)
- International Conference on Software Engineering Language (2009)
- International Conference on Generative Programming and Component Engineering (2009, 2008)
- ACM Mid-Southeast Conference (2009)
- ACM Southeast Conference (2008)

ACADEMIC SERVICES

Student Advising

Master Project/Thesis Advisor

- Zheng Lu (2014 – present)
- Xun Xu (2014 – present)
- Steven Parkin (2015 – present)
- Yiming Shan (2015 – present)
- Jonathan Johannsen (2015 – present)
- Sean Chen (2015 – present)

- Ana Nenova (2015 – present)
- Keerthana Chilukuri (2015 – present)
- Danqing Zhao (2016 – present)
- Arun Singh (2016 – present)
- Kshitija Shinde (2016 – present)
- Renita Priya (2016 – present)
- Joaquin Gonzalez (2016 - present)
- Roshan Rathod (2015 – 2016)
- Abdulwahed Alharbi (2015 – 2016)

Master Project/Thesis Co-Advisor
- Peter Chen (2015 – 2016)
- Kwang Jun (2014 – 2015)
- Tyson Phillips (2014 – 2015)
- Minfeng Chen (2014 – 2015)

Undergraduate Research Mentor
- David Luong (2014 – 2016)
- Jenifer Wang (2014 – 2015)
- Ankur Oswal (2014 – 2015)

High School Student Mentor
- Victor Sui (2014 – 2015)

University Service

- Search Committee
  Faculty Director of Student Innovation/Entrepreneurship (2014 – 2015)
- Judge
  HackPoly (2015)
- Judge
  Bronco Startup Challenge (2015)

Computer Science Department Service

- Graduate Committee (2014 – present)
- Laboratory Committee (2014 – present)
- Scholarship Committee (2014 – present)
- Assessment Committee (2014 – present)

TEACHING EXPERIENCES

Course Instructor

- CS480   Software Engineering (Fall 2015, Winter 2015, Fall 2015)

- CS499   Mobile Application Development (Spring 2015, Winter 2016)
- CS240   Data Structures and Algorithms I (Fall 2015, Spring 2015, Summer 2016)
- CS585   Software Verification and Validation (Winter 2015, Fall 2016)
- CS356   Object-Oriented Design and Programming (Summer 2015, Fall 2014)
- CS580   Advanced Software Engineering (Fall 2014, Winter 2016)

Teaching Assistant

- CS501/401   Programming Languages (Spring 2010)
- CS620/720   Advanced Topics on Software Engineering (Spring 2009)
- CS622/722   Advanced Topics on Reflective and Adaptive Systems (Fall 2008)
- CS303   Algorithms and Data Structures (Spring 2008)
- CS201   Introduction to Object-Orient Programming (Spring 2008)
- CS410/510   Database Systems I (Fall 2007)
- CS435/535   Network Programming (Fall 2007)
- CS101   Fluency With Information Technology (Fall 2007)

EDUCATION OUTREACH

- **Alabama Robotics Competition**
  (April 2, 2011)
  Position: Competition Judge

- **Blazer BEST Robotics Competition**
  (October 11, 2008)
  Position: Website Judge, Scorekeeper

- **UAB High School Programming Competition**
  (2008, 2009, 2010)
  Position: Grader, Event coordinator

- **Alice Film Festival**
  (2008, 2009)
  Position: Event coordinator

FUNDING

- PI. Google Ignite CS, "Teaching Android Development in High School with an Startup Accelerator Program", $7,400 (2016)

- PI. California State Polytechnic University, Pomona: Faculty Mini-Grant Program, "A Photo-based Turn-by-Turn Mobile Indoor Navigation System", $880 (2016)

- Co-PI (Sub-award). National Institutes of Health (NIH) DP3 DK097706, "Using Social Learning to Improve Adolescent Diabetes Adherence Problem Solving", $9,703 (2015)

- PI. California State Polytechnic University, Pomona: Special Projects for Improving the Classroom Environment (SPICE), "A Web-Based Classroom Response System using Mobile Devices", $17,048 (2015)

- PI. Citrus College/Cal Poly Pomona Summer Research Experience, "Automating Context-Aware Information Retrieval and Notification for Mobile Platforms", $3,000 (2015)
- PI. California State Polytechnic University, Pomona: Research Scholarship, and Creative Activity (RSCA), "A QoS-Oriented Automation Framework for Cloud Resource Allocation and Optimization", $5,000 (2014)
- PI. California State Polytechnic University, Pomona: Faculty Mini-Grant Program, "A Context Aware Mobile Information Notification System for Campus Environment", $1,000 (2014)

PROFESSIONAL MEMEBERSHIPS

- Association for Computing Machinery (ACM)
- ACM SIGSOFT (Special Interest Group on Software Engineering)
- ACM SIGCSE (Special Interest Group on Computer Science Education)
- IEEE Computer Society

CERTIFICATE

- Sun Certified Web Component Developer (SCWCD, score: 97%) October 2010
- Sun Certified Java Developer (SCJD) August 2010
- Sun Certified Java Programmer (SCJP, score: 98%) December 2006
- National Software Engineer Certificate June 2006
  Issued by Ministry of Industry and Information Technology of China
- National Programmer Certificate June 2005
  Issued by Ministry of Industry and Information Technology of China

TELEVISION / NEWSPAPER INTERVIEWS

- "UAB Students Invent 'PDA Doctor'," FOX 6, Birmingham, AL, April 26, 2009, 9pm Evening News.
- "University of Alabama at Birmingham Team Created Diagnostic Software for Handheld Computers to Aid Doctors," Birmingham News, April 22, 2009
- "UAB Wins the People's Choice Award at Microsoft's Imagine Cup," UAB News, June 8, 2009