

Xin Zhao, Ph.D.
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Education

- 2015 – 2021* **University of Alabama**
Ph.D. in Computer Science
Major Field of Study: Software Engineering
Advisor: Dr. Jeff Gray
- 2014 – 2015* **Wuhan University**
Master Student
Major Field of Study: Computer Vision
Advisor: Dr. Ruimin Hu
- 2009 – 2013* **Hebei Normal University**
Bachelor of Science in Computer Science
Major Field of Study: Software Engineering
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Academic Appointments

- Sep. 2021 –* **Seattle University**
Assistant Professor, Department of Computer Science
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Experience

- Aug. 2015 – May 2021* **Doctoral Research, University of Alabama**
Summarization, empirical evaluation and identification of poor designs in systems models, software product lines, computer science education.
- Jul. 2020 – Jul. 2021* **Research Assistant, University of Alabama**
[Department of Education – EIR](#): Assist in year-long “CS Professional Development” experiences offered to teachers who receive instruction from three different evidence-based curricula that form a CS course pathway.
- Jan. 2020 – Jun. 2020* **Research Assistant, University of Alabama**
NSF STEM+C ([#1639971](#)): Design lesson plans for the Edison programmable robots for K-12 schools in the Alabama Black Belt region.
- Aug. 2015 – Dec. 2019* **Teaching Assistant, University of Alabama**

CS 104 – Computer Science Principles, Fall 2015; Spring 2016, 2017.
CS 201 – Data Structures and Algorithms, Spring 2018.
CS 300 – Operating Systems, Fall 2018, 2019; Spring 2019.
CS 495 – Capstone Computing, Fall 2016, 2017; Spring 2017, 2018.

Jun. 2018 – Aug. 2018

Developer, Gorgas Library at University of Alabama

Develop and integrate FOLIO (a platform for library management system) for the library management system used at Gorgas Library at University of Alabama.

Sep. 2014 – Jul. 2015

Graduate Student Researcher, National Engineering Research Center for Multimedia Software at Wuhan University

Develop and optimize surveillance system for person identification with machine learning techniques.

Sep. 2011 – Aug. 2012

Co-Founder and Manager, BBS for School of Software, Hebei Normal University

Co-Founder of the official Bulletin Board System (BBS) for School of Software and took charge of the maintenance of this board system for 1 year.

Feb. 2012 – Aug. 2012

Undergraduate Student Researcher, Key Laboratory of Internet of Things of Hebei Province, China

Designed and developed *Tanlers* Energy Management System.

Publications

Journals

Saheed Popoola, **Xin Zhao**, and Jeff Gray, “Evolution of Bad Smells in LabVIEW Graphical Models,” *Journal of Object Technology*, Vol. 20, No. 1, pp. 1-15, 2021. doi:10.5381/jot.2021.20.1.a1.

Book Chapter

Xin Zhao, Jiang Zhe, and Jeff Gray, “Text Classification and Topic Modeling for Online Discussion Forums - An Empirical Study from the Systems Modeling Community,” *Trends and Applications of Text Summarization Techniques*. Idea Group Inc., ISBN: 978-1522593737, 2020, Chapter 6, pp 151 – 186.

Conference Proceedings

Xin Zhao, Jeff Gray and Taylor Riché, “A Survey-Based Empirical Evaluation of Bad Smells in LabVIEW Systems Models,” *28th IEEE International Conference on Software Analysis, Evolution and Reengineering (SANER’21)*, pp. 177-188, Virtual – Honolulu Hawaii, March 2021.

Xin Zhao and Jeff Gray, “BESMER: An Approach for Bad Smells Summarization in Systems Models,” *Models and Evolution at*

ACM/IEEE 22th International Conference on Model Driven Engineering Languages and Systems (ME@MoDELS'19), pp. 304-313, Munich, Germany, September 2019.

Xin Zhao and Jeff Gray, "Feature Model Design Guidelines: Exploring the Relationship between Feature Model Structure and Structural Complexity," *7th International Conference on Model-Driven Engineering and Software Development, (MODELSWARD' 19)*, pp. 323 – 331, Prague, Czech Republic, February 2019.

Xin Zhao, Austin Payne, and Travis Atkison "TTEXTS: A Dynamic Framework to Reverse UML Sequence Diagrams from Execution Traces," *16th International Conference on Software Engineering Research and Practice, (SERP'18)*, pp. 82 – 88, Las Vegas, Nevada, USA, July 2018.

Xin Zhao, "Feature-oriented Modeling for Collaborative Virtual Environment Construction," *Doctoral Symposium at ACM/IEEE 20th International Conference on Model Driven Engineering Languages and Systems (MoDELS'17)*, pp. 494 – 499, Austin, Texas, USA, September 2017.

Invited Talk

Xin Zhao and Jeff Gray, "A Complexity Analysis of LabVIEW Systems Models," *2020 ACM Mid-Southeast Conference* (online conference), November 14, 2020.

K-12 Outreach

Game On event at 2021 Alabama State Science Olympiad (SO), Co-Coordinator, March 2021.

University of Alabama STEM showcase, judge, March 2021.

Exploring Computer Science (ECS) Online Summer Professional Development, project team member, July 2020.

UTeach AP Computer Science Principles (AP CSP) Online Professional Development, project team member, July 2020.

Annual Alabama Robotics Contest, administrator and head Judge, April 2019.

CS4HS Summer Camp, assistant. June 2019 and June 2018.

Annual Alabama Robotics Contest, assistant, April 2018, April 2017,

April 2016.

Computer Science for High School (**CS4HS**, sponsored by Google),
course assistant, July 2016.

Awards and Honors

Awards

ACM Travel Grants to **MoDELS** Conference, Amount: \$500, 2017.

2015 International Mathematical Contest in Modeling (**MCM**)/
Interdisciplinary Contest in Modeling (**ICM**) (Sponsored by the
Mathematical Association of America), runner-up, 2015.

Academic Scholarship

Graduate Student Fellowship, Wuhan University, 2014-2015.

Academic Excellence Scholarship, Hebei Normal University, 2012.

Excellent Student Award, Hebei Normal University, 2011.

National Encouragement Scholarship, Hebei Normal University, 2010.

Academic Services

Journal Reviewer

Journal of Software and Systems Modeling (Springer)

Conference Reviewer

International Conference on Model Driven Engineering Languages and
Systems (**MoDELS**), 2020.

European Conference on Modelling Foundations and Applications
(**ECMFA**), 2020, 2019.

International Conference on Model Transformation (**ICMT**), 2017.

International Conference of Evaluation and Modelling Methods for
Systems Analysis and Development (**EMMSAD**), 2017.

Student Volunteer

International Conference on Model Driven Engineering Languages and
Systems (**MoDELS**), 2019, 2017.