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

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.