

SAHEED OLATUNJI POPOOLA, Ph.D

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EDUCATION

- **PhD Computer Science.** University of Alabama. 2021

Dissertation Topic: Change Analysis across Version History of Systems Models. Finding optimal ways to support mining of systems models in open-source repositories, analysis of design changes, recovery of design decisions, and analysis of bad smells.

- **MSc (By Research) Computer Science.** University of York, United Kingdom. 2016

Dissertation Project: Generation of scalable, random, repeatable models that can satisfy a set of user-defined (complex) constraints. The generated models can be used as test cases in the testing of automated model management programs.

- **MSc Computer Science.** African University of science and technology, Nigeria. 2014

Dissertation Project: Integrative mobile technologies and intelligent agents to build a web-based platform for offering domain-specific services

- **BSc computer science.** University of Ibadan, Ibadan, Nigeria. 2011

Dissertation Project: Automated timetable generation using genetic algorithm

EMPLOYMENT

- **Assistant Professor.** School of Information Technology, University of Cincinnati. August 2021 – current

PUBLICATIONS

- **Saheed Popoola**, Vineela Kunapareddi, and Hazem Said. "Developing and sustaining a student- driven software solutions center—An experience report." In *Journal of Systems and Software*, vol. 220, pp 112279. 2025.
- Adepoju, Odunayo Gabriel, Kevin Jin, Kemi Akanbi, and **Saheed Popoola**. "Early Detection of Heart Disease Using Machine Learning Algorithm: Performance Analysis and Model Comparison." In *2024 2nd International Conference on Artificial Intelligence, Blockchain, and Internet of Things (AIBThings)*, pp. 1-5. IEEE, 2024
- Yeboah, Jones, and **Saheed Popoola**. "Analyzing User Sentiments Towards Static Analysis Tools: A Study Using User Reviews." In *2024 2nd International Conference on Artificial Intelligence, Blockchain, and Internet of Things (AIBThings)*, pp. 1-7. IEEE, 2024
- Yeboah, Jones, and **Saheed Popoola**. "Uncovering User Concerns and Preferences in Static Analysis Tools: a Topic Modeling Approach." In *2024 2nd International Conference on Artificial Intelligence, Blockchain, and Internet of Things (AIBThings)*, pp. 1-6. IEEE, 2024
- Fall, Abdou, and **Saheed Popoola**. "Educator's Perspective on the role of Computational Technology in the Classroom." In *25th Annual Conference on Information Technology Education*, pp. 134-137. 2024.
- **Saheed Popoola**, Xin Zhao, Jeff Gray, and Antonio Garcia-Dominguez. "Classifying changes to LabVIEW and Simulink models via changeset metrics." In *Innovations in Systems and Software Engineering*, pp. 1-15. 2024.
- **Saheed Popoola**, Selena Ramanayake, and Sean Wielusz. "Strategies for Teaching a Large and Technically Diverse Class" In *24th ACM Annual Conference on Information Technology Education*. pp. 173-175, 2023.

- Jones Yeboah and **Saheed Popoola**. "Efficacy of static analysis tools for software defect detection on open-source projects." In 10th Annual Conf. on Computational Science & Computational Intelligence, pp. 1588-1593. 2023.
- Xin Zhao, Gurshan Rai, and **Saheed Popoola**. "Ask or Tell: An empirical study on modelling challenges from LabVIEW community" In Journal of Computer Languages. 2024.
- Olufunsho Falowo, **Saheed Popoola**, Josette Riep, Victor Adewopo, and Jacob Koch. "Threat actors' tenacity to disrupt: Examination of major cybersecurity incidents" In IEEE Access, vol. 10, pp. 134038 – 134051. 2022.
- **Saheed Popoola**, Xin Zhao, Jeff Gray, and Antonio Garcia-Dominguez. "Classifying Changes to Models via Changeset Metrics" In *25th ACM/IEEE International Conference on Model Driven Engineering Languages and Systems Companion*, pp. 276-285, 2022.
- **Saheed Popoola**, Jeff Gray, Antonio Garcia-Dominguez, and Dimitris Kolovos. "Analyzing Model Changes with Loupe" In *25th ACM/IEEE International Conference on Model Driven Engineering Languages and Systems Companion*, pp. 519-528, 2022.
- **Saheed Popoola**, and Jeff Gray. "Artifact Analysis of Smell Evolution and Maintenance Tasks in Simulink Models" In *24th ACM/IEEE International Conference on Model Driven Engineering Languages and Systems Companion*, pp. 817-826, 2021.
- **Saheed Popoola**, Xin Zhao, and Jeff Gray. "Evolution of Bad Smells in LabVIEW Graphical Models" In *Journal of Object Technology*, 2020.
- **Saheed Popoola** and Jeff Gray. "A LabVIEW Metamodel for Automated Analysis" In *International Conference on Computational Science and Computational Intelligence*, pp. 1127-1132. 2019.
- **Saheed Popoola**, Jeff Gray, and Jeffery Carver. "Modeling as a Service: A Survey of Existing Tools" In *MDETools Workshop* at the *20th ACM/IEEE International Conference on Model Driven Engineering Languages and Systems*, pp. 360-367. 2017
- **Saheed Popoola**, Dimitrios S. Kolovos, and Horacio Hoyos Rodriguez. "EMG: A Domain-Specific Transformation Language for Synthetic Model Generation", In *International Conference on Theory and Practice of Model Transformations*, pp. 36-51. 2016

POSTERS AND PRESENTATIONS

- Change Analysis across Version History of Systems Models. Presented at SRC @ *23rd ACM/IEEE International Conference on Model Driven Engineering Languages and Systems*. October 2020.
- Change Analysis of Simulink Models. Presented at the *ACM Mid-Southeast Conference*. November 2020

THESIS/DISSERTATION COMMITTEES

- Chair, Doctoral dissertation committee- Jones Yeboah. "Using natural language techniques to assess user feedback on static analysis tools". 2024
- Member, Doctoral dissertation committee- Itodo Cornelius. "A novel framework for the adoption of zero trust security for small, medium, and large scale organizations". 2024
- Chair, Masters thesis committee- Joanna Schmidt. "To change or not to change, meeting the needs is the ultimate question: A treatise on the decision process for Enterprise Resource Planning (ERP) change in higher education". 2025
- Member, Masters thesis committee- Sai Meenakshi Hariharan. "Development of a mHealth Solution for Wellness". 2024
- Member, Masters thesis committee- Joshua Berkoh. "The application of open-source intelligence on criminal investigations". 2024

- Member, Masters thesis committee- Fidelis Alu. "Artificial Intelligence bias in human-facing systems for space exploration". 2023
- Member, Masters thesis committee- Ahmad Abdulquadir. "Usability Study of Canvas learning Management Systems". 2022
- Member, Masters thesis committee- Opeyemi Abdulsalam. "Development of a technology intervention for compassion cultivation during transition to parenthood". 2022

TEACHING EXPERIENCE

- IT3020: Systems Analysis and Design, University of Cincinnati.
- IT7001: IT Graduate Seminar, University of Cincinnati.
- IT7071: Machine Learning and Data Mining for IT, University of Cincinnati.
- IT1090: Contemporary Programming 1
- IT8015: IT Research Seminar
- Teaching Assistant.** CS 200: Software Engineering and Design, University of Alabama. Fall 2019, Spring 2020, Fall 2020. Spring 2021.
- Teaching Assistant.** CS 495: Capstone Projects, University of Alabama. Fall 2018, Spring 2019
- Teaching Assistant.** CS 101: Foundations of Computer Science, University of Alabama. Spring 2018, Spring 2019

INVITED TALKS

- CS 573- Advanced Software Engineering at Boise State University, September 2021, November 2022.

SERVICE

- PC Member.** 26th Annual Conference on Cybersecurity and IT Education. 2025
- PC Member.** *IEEE 23rd International Conference on Information Reuse and Integration for Data Science, 2022, 2023 and 2024.*
- PC Member.** *Models and Evolution Workshop* at the *ACM/IEEE International Conference on Model Driven Engineering Languages and Systems*, 2020, 2021, 2022, 2023 and 2024.
- PC Member.** Artifact evaluation committee for the *ACM/IEEE International Conference on Model Driven Engineering Languages and Systems*, 2024.
- Frequent Reviewer.** *International Journal on Software and Systems Modelling.*
- Reviewer.** *European Conference on Modelling Foundations and Applications (ECMFA)*, 2017, 2019.
- Reviewer.** *ACM/IEEE International Conference on Model Driven Engineering Languages and Systems*, 2018, 2019, 2020.
- Reviewer.** Software: Practice and Experience Journal.
- Reviewer.** Annals of Ibadan Postgraduate Medicine

FUNDED RESEARCH ASSISTANTSHIP

- NSF INCLUDES.** *The Alabama Alliance for an Inclusive Middle Grades Computer Science Preparation through Makerspaces in the Alabama Black Belt Region.* Summer 2020.

K-12 OUTREACH SERVICES

- Instructor,** University of Cincinnati Early IT Summer Camp. 2023,2024
- Lead Judge and Principal Score Monitor,** Alabama Robotics Competition, held at University of Alabama (April 2017, 2018 and 2019).
- Camp Assistant,** Alabama Computer Science Summer Camps for Middle School and High school (2017, 2018, 2019)
- Guest Speaker,** Hour of Code. Tuscaloosa Career and Technology Academy. 2019

INDUSTRY WORK EXPERIENCE

- **Senior Development Engineer.** Department of Engineering and Development, Flexfinity media, Abuja. 2014 – 2015.
- **Web Developer.** Cyborg Nigeria limited. 2013
- **System Analyst.** Management Information Systems Unit, University of Ibadan. 2010

AWARDS

- Research Launch Award, Office of Research, University of Cincinnati. 2022.
- ACM Student Travel Grants. 2017.
- National Information Technology Development Agency Scholarship Award, Nigeria. 2014
- African Capacity Building Foundation Scholarship, AUST, Nigeria. 2013
- MIT/ AITI incubation First prize award, 2011.
- MTNF Scholarship Award, MTN Foundation, Nigeria. 2010 and 2011.
- Oyo State Government Scholarship Award, Nigeria. 2010.
- Dean Roll of Honour, Faculty of Science, University of Ibadan, Nigeria. 2007.

PROFESSIONAL DEVELOPMENT TRAININGS AND WORKSHOPS

- **Software Engineering Educators Workshop.** Organized by Software Engineering Institute at Carnegie Mellon University. 2020,2022.
- **Teaching Technology Workshop.** Organized by University of Alabama System Scholars Institute. May 2019.
- **Business Innovation for Digital Technology.** Organized by Department of Computer Science, University of York. September 2015.
- **Mobile Technologies Incubation.** Organized by Massachusetts Institute of Technology (MIT) and Accelerating Information Technology Innovation (AITI). <https://gsl.mit.edu>. May 2011.