# Wenxin Jiang

*Ph.D. Student*
*Elmore Family School of Electrical and Computer Engineering*
*Purdue University*
*West Lafayette, IN 47906*

*jiagn784@purdue.edu*
*765–409–1715*
*https://wenxin-jiang.github.io*

## RESEARCH THEME

My research interests lie in *Software Engineering* and *Trustworthy AI*, especially the reusability and reliability of deep learning pre-trained models.

## EDUCATION

**Ph.D, Electrical and Computer Engineering** 2020–present
*Purdue University, West Lafayette, IN*

**B.Sc. Applied Physics** 2016–2020
*Southeast University, Jiangsu, China*

**Study Abroad Program, Engineering Physics** 2019
*University of California, Santa Barbara, CA*

## PROFESSIONAL EXPERIENCE

**Graduate Research Assistant** 2021–present
*Purdue University — Advised by James C. Davis*

**TensorFlow Model Developer** 2021–present
*Purdue University × Google*

## REFEREED CONFERENCE PUBLICATIONS

[1] Montes, Peerapatanapokin, Schultz, Guo, **Jiang**, and Davis. *Discrepancies among Pre-trained Deep Neural Networks: A New Threat to Model Zoo Reliability.* Proceedings of the 30th ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering — Ideas, Visions, and Reflections track (**ESEC/FSE-IVR'22**).

## REFEREED WORKSHOPS, DEMONSTRATIONS, AND COMPETITIONS

[1] **Jiang**, Synovic, Sethi, Indarapu, Hyatt, Schorlemmer, Thiruvathukal, and Davis. *An Empirical Study of Artifacts and Security Risks in the Pre-trained Model Supply Chain.* Proceedings of the 1st ACM Workshop on Software Supply Chain Offensive Research and Ecosystem Defenses (**SCORED'22**).

[2] Synovic, Hyatt, Sethi, Thota, Shilpika, Miller, **Jiang**, Amobi, Pinderski, Laufer, Hayward, Kingensmith, Davis, and Thiruvathukal. *Snapshot Metrics Are Not Enough: Analyzing Software Repositories with Longitudinal Metrics.* Proceedings of the 37th IEEE/ACM International Conference on Automated Software Engineering — Demonstrations track (**ASE-Tool Demonstrations'22**).

[3] Veselsky, West, Ahlgren, Thiruvathukal, Klingensmith, Goel, **Jiang**, Davis, Lee, and Kim. *Establishing trust in vehicle-to-vehicle coordination: a sensor fusion approach.* roceedings of the 2nd Workshop on Data-Driven and Intelligent Cyber-Physical Systems for Smart Cities (**DI-CPS'22**).

## TECHNICAL REPORTS

[1] Banna, Chinnakotla, Yan, Vegesana, Vivek, Krishnappa, **Jiang**, Lu, Thiruvathukal, and Davis. *An Experience Report on Machine Learning Reproducibility: Guidance for Practitioners and TensorFlow Model Garden Contributors*. `https://arxiv.org/abs/2107.00821`. 2021.

## UNDER SUBMISSION

[1] **Jiang**, Synovic, Hyatt, Schorlemmer, Sethi, Lu, Thiruvathukal, and Davis. *An Empirical Study of Pre-Trained Model Reuse in the Hugging Face Deep Learning Model Registry*. Proceedings of the ACM/IEEE 45th International Conference on Software Engineering (**ICSE'23 *under submission***).

[2] **Jiang**, Banna, Vivek, Goel, Synovic, Klingensmith, Thiruvathukal, and Davis. *Challenges and Practices of Deep Learning Model Reengineering: A Case Study on Computer Vision*. Proceedings of the ACM/IEEE 45th International Conference on Software Engineering (**ICSE'23 *under submission***).

## TEACHING ASSISTANT

**ECE 595 – Advanced Software Engineering** Spring 2022
*Purdue University*

## INVITED TALKS

**Deep Learning Model Reengineering: An Exploratory Case Study on Computer Vision** 2022
*Purdue University Programming Languages Group, Seminar*

## AWARDS AND RECOGNITION

Study Abroad Fellowship, Southeast University 2019
Second prize, Vision Guided Robot Competition, Southeast University 2019
Distinction Award, Southeast University 2018
Third prize, Structual Innovation Invitation Competition, Southeast University 2017

## ACTIVITIES AS A REFEREE

Sub-Reviewer: ASE'22 2022

## DEPARTMENTAL SERVICE

Director, Southeast University TV Station 2016-2019

Member, Southeast University Physics Student Council 2016-2017

## PROFESSIONAL MEMBERSHIPS

Student member, Association for Computing Machinery (ACM)

Student member, Institute of Electrical and Electronics Engineers (IEEE)