

Yingzhe Lyu

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Highlights

- **Experienced in software engineering research specialized in the AIOps area**, with a track record of publications in top-tier software engineering venues including TOSEM and EMSE.
- **Industry research experience at interdisciplinary area across software engineering and AI**, contributing to state-of-the-art intelligent software engineering projects.

Education

Ph.D. in Computing

QUEEN'S UNIVERSITY

Kingston, Canada

Sep. 2019 - Oct. 2025

- Supervisor: Dr. Ahmed E. Hassan
- Dissertation: "Evaluation, Interpretation, and Maintenance of Machine Learning Models for IT Operations"

B.Sc. in Computer Science

EAST CHINA NORMAL UNIVERSITY

Shanghai, China

Sep. 2015 - Jun. 2019

Experience

Intern Engineer

HUAWEI CANADA RESEARCH INSTITUTE

Kingston, Canada

Oct. 2020 - Apr. 2022

- Participated in the state-of-art research project on intelligent software engineering
- Conducted research on the consistency of AIOps model interpretations that advancing toward more reliable interpretations
- Designed prototype tools that automatically suggesting code health advice in real-time within actual development environment

Graduate Research Assistant

SOFTWARE ANALYSIS AND INTELLIGENCE LAB (SAIL), QUEEN'S UNIVERSITY

Kingston, Canada

Oct. 2019 - Oct. 2025

- Conducted research on the evaluation and maintenance of machine learning models in AIOps solutions, demonstrating the ability to produce publishable work through multiple submissions accepted at top-tier venues

Publications

Can We Recycle Our Old Models? An Empirical Evaluation of Model Selection Mechanisms for AIOps Solutions

EMSE, 2026

YINGZHE LYU, HAO LI, HENG LI, AHMED E. HASSAN

On the Model Update Strategies for Supervised Learning in AIOps Solutions

TOSEM, 2024

YINGZHE LYU, HENG LI, ZHEN MING (JACK) JIANG, AHMED E. HASSAN

Towards a Consistent Interpretation of AIOps Models

TOSEM, 2022

YINGZHE LYU, GOPI KRISHNAN RAJBAHADUR, DAYI LIN, BOYUAN CHEN, ZHEN MING (JACK) JIANG

An Empirical Study of the Impact of Data Splitting Decisions on the Performance of AIOps Solutions

TOSEM, 2021

YINGZHE LYU, HENG LI, MOHAMMED SAYAGH, ZHEN MING (JACK) JIANG, AHMED E. HASSAN

Presentation

Presenter for the paper "On the Model Update Strategies for Supervised Learning in AIOps Solutions."

CSER, 2024

2024 CONFERENCE ON SYSTEMS ENGINEERING RESEARCH (CSER)

Presenter for the paper "Towards a Consistent Interpretation of AIOps Models."

ESEC/FSE, 2022

2022 ACM JOINT EUROPEAN SOFTWARE ENGINEERING CONFERENCE AND SYMPOSIUM ON THE FOUNDATIONS OF SOFTWARE

ENGINEERING (ESEC/FSE) JOURNAL FIRST

Skills

Research	Extensive research experience with machine learning models and LLMs in the AIOps area
Programming	Proficient in C/C++, Java, Typescript, R, and Python
Languages	Fluent in Chinese and English