Wonseok Oh

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Research Areas

My research focuses on **Programming Language** and **Software Engineering**, specifically developing advanced program analysis techniques to automatically detect bugs and guarantee software reliability in complex systems.

Education

Mar 2024 - Present	Ph.D. in Computer Science - Korea University
Mar 2022 - Feb 2024	M.S. in Computer Science - Korea University
Mar 2016 - Aug 2021	B.S. in Computer Science - Korea University (GPA 4.41 / 4.5)

Publications

1. Miryeong Kang, <u>Wonseok Oh</u>, Hakjoo Oh. *Pig: Leveraging Large Language Models for Python Library Migrations*
   FSE 2026: ACM International Conference on the Foundations of Software Engineering

2. <u>Wonseok Oh</u>, Hyobin Park, Miryeong Kang, Seungbin Choi, Yunja Choi, Hakjoo Oh. *PySTAAR: An End-to-End, Extensible Framework for Automated Python Type Error Repair*
   ICSE 2026 Demo: IEEE/ACM International Conference on Software Engineering (Demonstrations Track)

3. <u>Wonseok Oh</u>, Hakjoo Oh. *TypeCare: Boosting Python Type Inference Models via Context-Aware Re-Ranking and Augmentation*
   ICSE 2026: IEEE/ACM International Conference on Software Engineering

4. <u>Wonseok Oh</u>, Hakjoo Oh. *Towards Effective Static Type-Error Detection for Python*
   ASE 2024: 39th IEEE/ACM International Conference on Automated Software Engineering

5. <u>Wonseok Oh</u>, Hakjoo Oh. *PyTER: Effective Program Repair for Python Type Errors*
   ESEC/FSE 2022: ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering

Professional Activities

- **Artifact Evaluation Committee (AEC) Members**
  - SAS 2025: 32nd Static Analysis Symposium

- **Patent**
  - Device and method for program repair for type errors in dynamically typed language

Talks

Oct 2024 KCSE 2023, *PyTER: Effective Program Repair for Python Type Errors*