

Wonseok Oh

Ph.D Student

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Homepage

<https://marinelay.github.io>

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. [Wonseok Oh](#), [Hakjoo Oh](#). *TypeCare: Boosting Python Type Inference Models via Context-Aware Re-Ranking and Augmentation*
ICSE 2026: IEEE/ACM International Conference on Software Engineering
2. [Wonseok Oh](#), [Hakjoo Oh](#). *Towards Effective Static Type-Error Detection for Python*
ASE 2024: 39th IEEE/ACM International Conference on Automated Software Engineering
3. [Wonseok Oh](#), [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*