

# Wonseok Oh

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## Ph.D Student

Department of Computer Science and Engineering  
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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](#), 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)
2. [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
3. [Wonseok Oh](#), Hakjoo Oh. *Towards Effective Static Type-Error Detection for Python*  
**ASE 2024**: 39th IEEE/ACM International Conference on Automated Software Engineering
4. [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*