

# MINSEOK JEON

## PERSONAL INFORMATION

*email*                    [minseok.jeon@korea.ac.kr](mailto:minseok.jeon@korea.ac.kr)  
*website*                <http://prl.korea.ac.kr/~minseok>  
*phone*                    (M) +82 10 4139 4729

## RESEARCH INTERESTS

I am interested in programming languages with applications to software engineering and machine learning:

- **Program analysis:** program analysis for automatically detecting software bugs and vulnerabilities.
- **Machine learning:** programming language-based machine learning for accurate, interpretable, and explainable AI.

## EDUCATIONAL BACKGROUND

*March 2017 - February 2023*                    Integrated M.S. & Ph.D. in Computer Science and Engineering. Korea University.  
• Advisor: Hakjoo Oh

*March 2011 - February 2017*                    B.S. in Computer Science and Engineering. Korea University.

## PUBLICATIONS

Published papers on programming languages in premier conferences (POPL 2022, OOPSLA 2017, OOPSLA 2018, and OOPSLA 2020) and journal (TOPLAS 2019).

*April 2023*                    Jinkook Kim, **Minseok Jeon**, Sejeong Jang, and Hakjoo Oh.  
*Automating Endurance Test for Flash-based Storage Devices in Samsung Electronics.*  
**ICST 2023:** IEEE International Conference on Software Testing, Verification and Validation (Industry Track).

*January 2022*                    **Minseok Jeon** and Hakjoo Oh.  
*Return of CFA: Call-Site Sensitivity Can Be Superior to Object Sensitivity Even for Object-Oriented Programs.*  
**POPL 2022:** The 49th ACM SIGPLAN Symposium on Principles of Programming Languages.

*July 2021*                    Donghoon Jeon, **Minseok Jeon**, and Hakjoo Oh.  
*A Practical Algorithm for Learning Disjunctive Abstraction Heuristics in Static Program Analysis.*  
Information and Software Technology Volume 135.

*November 2020*                    **Minseok Jeon**, Myungho Lee, and Hakjoo Oh.  
*Learning Graph-based Heuristics for Pointer Analysis without Handcrafting Application-Specific Features.*  
**OOPSLA 2020:** ACM Conference on Object-Oriented Programming, Systems, Languages, and Applications.

*June 2019*                    **Minseok Jeon\***, Sehun Jeong\*, Sungdeok Cha, and Hakjoo Oh (\*co-first

author).

*A Machine-Learning Algorithm with Disjunctive Model for Data-Driven Program Analysis.*

**TOPLAS:** ACM Transactions on Programming Languages and Systems.

November 2018

**Minseok Jeon**, Sehun Jeong, and Hakjoo Oh.

*Precise and Scalable Points-to Analysis via Data-Driven Context Tunneling.*

**OOPSLA 2018:** ACM Conference on Object-Oriented Programming, Systems, Languages, and Applications.

October 2017

Sehun Jeong\*, **Minseok Jeon\***, Sungdeok Cha, and Hakjoo Oh (\*co-first author).

*Data-Driven Context-Sensitivity for Points-to Analysis.*

**OOPSLA 2017:** ACM Conference on Object-Oriented Programming, Systems, Languages, and Applications.

## SERVICE

### Program Committee Members

1. OOPSLA 2024: ACM Conference on Object-Oriented Programming, Systems, Languages, and Applications

## TALKS

1. Return of CFA: Call-Site Sensitivity Can Be Superior to Object Sensitivity Even for Object- Oriented Programs. STAAR Workshop. Jeju. Feb 11 2022
2. Return of CFA: Call-Site Sensitivity Can Be Superior to Object Sensitivity Even for Object- Oriented Programs. Paper presentation at POPL 2022. Philadelphia, USA. Jan 19 2022
3. Learning Graph-based Heuristics for Pointer Analysis without Handcrafting Application- Specific Features. KSC2020.
4. Learning Graph-based Heuristics for Pointer Analysis without Handcrafting Application- Specific Features. Paper presentation at OOPSLA 2020. Online. NOV 20 2020.
5. Precise and Scalable Points-to Analysis via Data-Driven Context Tunneling. Paper presen- tation at OOPSLA 2018. BOSTON, USA. NOV 8 2018.
6. Data-Driven Context-Sensitivity for Points-to Analysis, KCC 2018. JeJu, Korea.
7. Data-Driven Context-Sensitivity for Points-to Analysis, KCSE 2018. Pyeongchang, Korea.

April 5, 2023