

# MINSEOK JEON

## PERSONAL INFORMATION

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## RESEARCH INTERESTS

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

- **Static analysis:** static program analysis for automatically detecting software bugs and vulnerabilities.
- **Software testing:** automatically generating effective test inputs for detecting software bugs.
- **Machine learning:** 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.

## EMPLOYMENT HISTORY

*March 2023 - Present*                      Postdoctoral Researcher. 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.

May 2, 2023