

Daejun Park

Ph.D. Student

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Research Interests

Program verification, invariant synthesis, language semantics, and web security.

Education

Ph.D., Computer Science, University of Illinois at Urbana-Champaign	2013 – present
M.S., Computer Science and Engineering, Seoul National University, Korea	2006 – 2008
B.S., Computer Science and Engineering, Seoul National University, Korea	2001 – 2006

Work Experience

Research Associate, Seoul National University, Korea 2012 – 2013

- Designed and implemented a *differential program analysis* tool for Samsung semiconductor manufacturing automation system.

Founding Member & Technical Lead, Sparrow (*acquired by Fasoo in 2010*), Korea 2008 – 2012

- Designed and implemented a *static program analysis tool* detecting memory safety errors and security weaknesses in embedded system software.

Publications

- [1] **Invariant Synthesis for Sound but Incomplete Verification Engines.**
Daejun Park, Daniel Neider, Shambwaditya Saha, Pranav Garg, Peyman Mahdian, and Madhusudan Parthasarathy. *Under review*.
- [2] **Semantics-Based Program Verifiers for All Languages.**
Andrei Stefanescu, *Daejun Park*, Shijiao Yuwen, Yilong Li, and Grigore Rosu. *Proceedings of the 2016 ACM SIGPLAN International Conference on Object-Oriented Programming, Systems, Languages, and Applications (OOPSLA'16)*, 2016. [acceptance ratio 25% (52/203)] *To appear*.
- [3] **KJS: A Complete Formal Semantics of JavaScript.**
Daejun Park, Andrei Stefanescu, and Grigore Rosu. *Proceedings of the 36th ACM SIGPLAN Conference on Programming Language Design and Implementation (PLDI'15)*, 2015. [acceptance ratio 19% (58/303)]
- [4] **Global Sparse Analysis Framework.**
Hakjoo Oh, Kihong Heo, Wonchan Lee, Woosuk Lee, *Daejun Park*, Jeehoon Kang, and Kwangkeun Yi. *ACM Transactions on Programming Languages and Systems (TOPLAS)*, Vol.36, No.3, Sep 2014.

Honors & Awards

Korean Government Scholarship	2013–2015
Honors Scholarship, Seoul National University	2003–2004
Bronze Medal in National Mathematics Competition	2000

References

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