

# Daejun Park

Ph.D. Student

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## Research Interests

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- ▶ Program verification: invariant synthesis, translation validation (for compiler).
- ▶ Security: verifiable computing (for machine learning and cryptocurrency).

## Education

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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

## Publications

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- [1] **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. **Distinguished Paper Award**
- [2] **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.
- [3] **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.

## Work Experience

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Research Intern, Microsoft Research, WA	Summer 2017
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- ▶ Designed a novel verifiable computing technique for deep neural network training.

Founding Member & Technical Lead, Sparrow ( <i>acquired by Fasoo in 2010</i> ), Korea	2008 – 2012
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- ▶ Designed and implemented a *static program analysis tool* detecting memory safety errors and security vulnerabilities in embedded-system software.

## Honors & Awards

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Distinguished Paper Award at OOPSLA'16	2016
Korean Government Scholarship	2013–2015
Honors Scholarship, Seoul National University	2003–2004
Bronze Medal in National Mathematics Competition	2000

## References

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