

Daejun Park

Ph.D. Student

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Research Interests

- ▶ 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

- [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.
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| 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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| Grigore Rosu Professor Department of Computer Science University of Illinois at Urbana-Champaign Email: grosu@illinois.edu | Kwangkeun Yi Professor School of Computer Science and Engineering Seoul National University Email: kwang@ropas.snu.ac.kr |
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