

Sehun Jeong

CONTACT INFORMATION	614B, Science Library, Korea University Seoul, South Korea	82-2-3290-3585 gifaranga@korea.ac.kr
RESEARCH INTERESTS	Pointer analysis, Software engineering, Machine learning	
EDUCATION	Korea University , Seoul, South Korea	
	Ph.D., Computer Science and Engineering, March 2020	
	<ul style="list-style-type: none">• Topic: <i>Learning Heuristics for Fast and Precise Java Points-to Analysis</i>• Advisor: Sungdeok (Steve) Cha, Ph.D	
	M.S., Computer Science and Engineering, August 2012	
	<ul style="list-style-type: none">• Topic: <i>Architectural Refactoring of Real-Time Software Design for Predictable Controls of Artificial Heart</i>• Advisor: Sungdeok (Steve) Cha, Ph.D	
	B.S., Computer Science and Engineering, March 2010	
PUBLICATIONS	<ol style="list-style-type: none">1. Minseok Jeon*, Sehun Jeong*, Sungdeok Cha, Hakjoo Oh, “A Machine-Learning Algorithm with Disjunctive Model for Data-Driven Program Analysis” <i>TOPLAS: ACM Transactions on Programming Languages and Systems</i>, 2019. (*contributed equally)2. Sooyoung Cha, Sehun Jeong, Hakjoo Oh, “A Scalable Learning Algorithm for Data-Driven Program Analysis” <i>IST: Information and Software Technology</i>, 2018.3. Minseok Jeon, Sehun Jeong, Hakjoo Oh, “Precise and Scalable Points-to Analysis via Data-Driven Context Tunneling” <i>OOPSLA 2018: ACM Conference on Object-Oriented Programming, Systems, Languages, and Applications</i>.4. Sehun Jeong*, Minseok Jeon*, Sungdeok Cha, Hakjoo Oh, “Data-Driven Context-Sensitivity for Points-to Analysis.” <i>OOPSLA 2017: ACM Conference on Object-Oriented Programming, Systems, Languages, and Applications</i>. (*contributed equally)5. Min-je Choi, Sehun Jeong, Hakjoo Oh, Jaegul Choo, “End-to-end Prediction of Buffer overruns from Raw Source Code via Neural Memory Networks.” <i>IJCAI 2017: International Joint Conference on Artificial Intelligence</i>.6. Sooyoung Cha, Sehun Jeong, Hakjoo Oh, “Learning a Strategy for Choosing Widening Thresholds from a Large Codebase.” <i>APLAS 2016: Asian Symposium on Programming Languages and Systems</i>.7. Kwangsik Song, Ah-Rim Han, Sehun Jeong, Sungdeok Cha, “Generating various contexts from permissions for testing Android applications.” <i>SEKE 2015: International Conference on Software Engineering and Knowledge Engineering</i>.8. Junbeom Yoo, Jong-Hoon Lee, Sehun Jeong, “FBDtoVerilog: A Vendor-Independent Translation from FBDs into Verilog Programs.” <i>SEKE 2011: International Conference on Software Engineering and Knowledge Engineering</i>.9. Sungdeok Cha, Sehun Jeong, Junbeom Yoo, Young-Gab Kim, “Testing of Safety-Critical Software Embedded in an Artificial Heart.” <i>SSS 2011: Safety-critical Systems Symposium</i>.10. Sehun Jeong, Junbeom Yoo, Sungdeok Cha, “VIS Analyzer: A Visual Assistant for VIS Verification and Analysis.” <i>ISORC 2010: International Symposium on Object/Component/Service-Oriented Real-Time Distributed Computing</i>.	

PROFESSIONAL SERVICE	<ul style="list-style-type: none"> • Review committee member for TOPLAS • Artifact evaluation committee member for SAS • Artifact evaluation committee member for OOPSLA 	<p>2019 2019 2018, 2019</p>
SOFTWARE SKILLS	<ul style="list-style-type: none"> • Ocaml, Python, Java, C, C++, UNIX shell scripting, and others 	
AWARDS	<p>Travel Awards</p> <ul style="list-style-type: none"> • PLMW@PLDI, Santa Barbara, CA, USA <p>Scholarship</p> <ul style="list-style-type: none"> • One-year scholarship, Mirae Asset Park Hyeon Joo Foundation 	<p>June 2016 2009</p>
PRESENTATIONS	<p>Conferences</p> <ul style="list-style-type: none"> • Data-Driven Context-Sensitivity for Points-to Analysis, OOPSLA • VIS Analyzer: A Visual Assistant for VIS Verification and Analysis, ISORC <p>2010</p>	<p>Oct 2017 May</p>