Idriss Riouak
Curriculum Vitae

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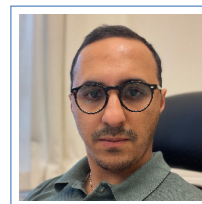
Links

GitHub	github.com/IdrissRio
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Google Scholar	User: Idriss Riouak

Education

2019–Today	**Lund University**, *Sweden*, Ph.D. Student, Computer Science Deparment.
2017–2019	**University of Udine**, *Italy*, Master in Computer Science. Curriculum: Software Verification and formal methods, 110/110 cum laude.
2013–2016	**University of Parma**, *Italy*, Degree in Computer Science, 106/110.
2008–2013	**Techinical Economic Institute Bodoni**, *Italy*, High school degree, Final grade: 94/100.

Compiler's Related Experience

2024	**Main developer of CAT: Callgraph Analysis Tool**, Open Source Project.
2019 - Today	**Contribution to the ExtendJ Java Compiler**, Open Source Project.
2019 - Today	**Contribution to the JastAdd Metacompiler**, Open Source Project.
2020 - Today	**Main developer of the IntraJ Static Analyser**, Open Source Project.
2020 - Today	**Teaching assistant for the course Compilers**, Lund University.
2022-2023	**Teaching assistant for the course Program Analysis**, Lund University.
2021-2022	**Teaching assistant for the course Concepts of Programming Languages**, Lund University.
2019	**RNB-Compiler: front-end and middle-end of a compiler for the RNB language**, University of Udine.
September 2018	**SX2PH:Transpiler from SpaceEx to PHAVer**, University of Udine and University of Parma.
2017 - 2020	**Clang & LLVM contributor**, Open Source Project. Contribution to the LLVM project Clang-Tidy.

Work Experiences

2015 - 2018	**Software Developer for F.B. Services**, Developed and maintained the company information system, SQL-Server, Visual Basic.
2013 - 2016	**Waiter at Castellazzo Tennis Club**.

Certifications & Awards

March 2024	**ACM Student Research Competition**, *<Programming>'24*, First Place. Using Static Analysis to Improve the Efficieny of Static Analysers
October 2019	**Scholarhip to attend the LLVM Dev Meeting 2019 conference**, *LLVM Foundation*, San Jose, California, USA.

June 2018	**Effective MISRA C**, *Certificate released by professor Roberto Bagnara, Bugseng*.
April 2019	**Scholarhip to attend the EuroLLVM 2019 conference**, *LLVM Foundation*, Brussels, Belgium.
May 2013	**National Champion of C++ team Olympics (Undergraduate Student)**, *I.T.E. Bodoni*.

Publications

October 2024	**Efficient Demand Evaluation of Fixed-Point Attributes Using Static Analysis**, *Idriss Riouak, Niklas Fors,Jesper Öqvist, Görel Hedin and Christoph Reichenbach*, SLE 2024.
July 2024	**IntraJ: An On-Demand Framework for Intraprocedural Java Code Analysis**, *Idriss Riouak, Niklas Fors, Görel Hedin and Christoph Reichenbach*, Submitted for publication at JTTT 2024.
August 2022	**JFeature: Know Your Corpus**, *Idriss Riouak, Görel Hedin, Christoph Reichenbach and Niklas Fors*, SCAM 2022.
October 2021	**A Precise Framework for Source-Level Control-Flow Analysis**, *Idriss Riouak, Christoph Reichenbach, Görel Hedin and Niklas Fors*, SCAM 2021.
June 2019	**Non-well-founded set based multi-agent epistemic action language**, *Fabiano Francesco, Riouak Idriss, Agostino Dovier and Enrico Pontelli*, CILC 2019.
June 2019	**Category Report: Hybrid Systems with Piecewise Constant Dynamics**, *Goran Frehse et al.*, ARCH-COMP 2019.

Invited Talks

June 2024	**IntraJ: An On-Demand Framework for Intraprocedural Java Code Analysis**, *Challanges of Software Verification 2024*, Ca' Foscari University, Venice.
June 2022	**Source-Level Dataflow-Based Fixes: Experiences From Using Intraj and Magpiebridge**, *Berlin*, PRIDE Workshop.
October 2021	**A Precise Framework for Source-Level Control-Flow Analysis**, *Virtual*, ROSE Workshop.

Thesis

March 2023	**Licentiate Thesis: Declarative Specification of Intraprocedural Control-flow and Dataflow Analysis**, *Lund University*, Opponent: Alexandre Bartel.
June 2019	**Non-well-founded set based multi-agent epistemic action language**, *University of Udine*, Supervisor: Agostino Dovier, Co-supervisor: Francesco Fabiano.
Dic 2016	**A Study on the Effectiveness of Automatic Checkers for Modernizing C++ Code**, *University of Parma*, Supervisor: Enea Zaffanella.

Extra Courses

July 2023	**Oregon Programming Languages Summer School**, Types, Semantics, and Logic.
September 2022	**Summer School on Software Testing and Verification**, Security, Verification, Static Analysis and Testing, Leuven, Belgium.
August 2022	**Synthesis of Human Communication**, Norrköping, Sweden.
August 2021	**Programming Languages Implementation Summer School**, Programming Languages Implementation, Virtual.
July 2020	**Autonomous System Summer School 2020**, Virtual.

Languages

Italian	**Native Speaker**.
English	**Proficient in professional English communication**.
Swedish	**Basic**.