

# Ivan Radiček

## Curriculum Vitae

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### Research Interest

My interests are in *Programming Languages, Formal Methods, Verification, Type Systems, and Programming Education*. I currently work on automating feedback for introductory programming assignments, using formal methods and programming languages technology.

### Education

#### Academic

- 2014–Present **PhD in Computer Science**, TU WIEN, Vienna, Austria.
- 2010–2012 **Master of Science in Computing**, *University of Zagreb, Faculty of Electrical Engineering and Computing*, Zagreb, Croatia, Thesis: Design of Bayesian network based on stochastic simulation reasoning.
- 2006–2010 **Bachelor of Science in Computing**, *University of Zagreb, Faculty of Electrical Engineering and Computing*, Zagreb, Croatia, Undergraduate Thesis: Lightweight formal system verification.

#### Summer Schools

- April, 2016 **Spring School on Logic and Verification 2016**, Vienna, Austria.
- August, 2015 **Summer School Marktoberdorf 2015**, Marktoberdorf, Germany.
- July, 2014 **SAT/SMT Summer School 2014**, Semmering, Austria, (*Award of Excellence*).

### Experience

- 2013–Present **Project Assistant**, TU WIEN, FORSYTE *group*, Vienna, Austria.
- September–December 2015 **Intern**, MPI-SWS, Saarbrücken, Germany.  
Worked with Deepak Garg on type-based relational cost analysis.
- 2008–2013 **Software developer and system engineer**, IMENIK D.O.O., Zagreb, Croatia.  
Web development (Python, PHP, Java), Web crawling and scripting, System administration (GNU/Linux, Oracle database, Windows), Network administration (Cisco).

#### Activities

- July, 2014 **Vienna Summer of Logic**, *Volunteer Collaborator of the Organization*, July 9th to 24th, Vienna, Austria.
- 2012 **Python workshop**, *Culture Shock festival*, Križevci, Croatia.  
Teaching Python & OO fundamentals

- 2008 **Computing and advanced algorithms teaching**, *Computing club Križevci (Informatički klub Križevci)*, Križevci, Croatia.  
Preparing high school students for computing competition

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## Publications

**Automated Clustering and Program Repair for Introductory Programming Assignments**, *arXiv*, 2017, With Sumit Gulwani and Florian Zuleger.  
(under submission)

**Feedback Generation for Performance Problems in Introductory Programming Assignments**, *FSE 2014*, November 16-21, 2014 Hong Kong, With Sumit Gulwani and Florian Zuleger.

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## Tools

**clara**, <https://github.com/iradicek/clara>, A tool for automated clustering and repair of introductory programming assignments.

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## Awards

**Verification Mentoring Workshop Scholarship Award**, *Scholarship to attend the Verification Mentoring Workshop (VMW) at CAV*, San Francisco, USA.

**Programming Language Mentoring Workshop Scholarship Award**, *Scholarship to attend the SIGPLAN Programming Languages Mentoring Workshop (PLMW) at POPL*, Mumbai, India.

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## Talks

**Feedback Generation for Performance Problems in Introductory Programming Assignments.**

- 22nd International Symposium on the Foundations of Software Engineering (FSE 2014), 16-21 Nov 2014, Hong Kong
- 9th Alpine Verification Meeting, 12-14 May 2014, Frejus, Cote d'Azur, France
- 2nd Workshop on Programming Languages Technology for Massive Open Online Courses (PLOOC 2014), June 13 2014, Co-Located With PLDI 2014, Edinburgh, UK

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## Computer skills

Languages PYTHON, OCAML, C/C++ COQ, JAVA, C#, JAVASCRIPT, HTML, PHP  
Other GNU/LINUX, L<sup>A</sup>T<sub>E</sub>X, Virtualization, PostgreSQL, MySQL, git, SVN

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## Languages

Croatian **Native speaker**  
English **Conversationally fluent**  
German **Basic understanding**