

# Faezeh KHORRAM

## Senior Research Engineer at HUAWEI | PhD in Software Engineering

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### INTERESTS

- > Model-Driven Engineering (MDE)
- > Domain-Specific Languages (DSL)
- > Debugging and Testing Models

### WORK EXPERIENCE

April 2023 - current	Senior Research Engineer Fermat Laboratory, Grenoble R&D Center, HUAWEI Technologies France
Jan - March 2023	Postdoctoral Researcher DiverSE group, IRISA laboratory, CNRS, University of Rennes

### EDUCATION

2019 - 2022	<b>PhD in Software Engineering</b> Department of Automation, Production and Computer Sciences, IMT Atlantique, Nantes, France.
2016 - 2019	<b>MSc in Software Engineering</b> Department of Computer Engineering, Sharif University of Technology, Tehran, Iran
2012 - 2016	<b>BSc in Software Engineering</b> Department of Computer Engineering, Shahrood University of Technology, Shahrood, Semnan, Iran Graduated with honors

### RESEARCH EXPERIENCE

#### Publications

- > **Faezeh Khorram**, Erwan Bousse, Antonio Garmendía, Jean-Marie Mottu, Gerson Sunye, Manuel Wimmer. From Coverage Computation to Fault Localization : A Generic Framework for Domain-Specific Languages. Proceedings of the 15th ACM SIGPLAN International Conference on Software Language Engineering (SLE), 2022.
- > **Faezeh Khorram**, Erwan Bousse, Jean-Marie Mottu, Gerson Sunyé, Pablo Gómez-Abajo, Pablo C. Cañizares, Esther Guerra, Juan de Lara. Automatic Test Amplification for Executable Models. Proceedings of the ACM/IEEE 25th International Conference on Model Driven Engineering Languages and Systems (MODELS), 2022.
- > **Faezeh Khorram**, Erwan Bousse, Jean-Marie Mottu, Gerson Sunyé. Advanced Testing and Debugging Support for Reactive Executable DSLs. *Software and Systems Modeling*, 2022.
- > **Faezeh Khorram**, Erwan Bousse, Jean-Marie Mottu, Gerson Sunyé. Adapting TDL to Provide Testing Support for Executable DSLs. *The Journal of Object Technology*, 20(3), pp.6:1-15, 2021.
- > **Faezeh Khorram**, Masoumeh Tatomirad, Raman Ramsin. SeGa4Biz : Model-Driven Framework for Developing Serious Games for Business Processes. In proceedings of the 9th International Conference on Model-Driven Engineering and Software Development (MODELSWARD 2021), 2021, Virtual.
- > **Faezeh Khorram**, Jean-Marie Mottu, Gerson Sunyé. Challenges & Opportunities in Low-Code Testing. Proceedings of the 23rd ACM/IEEE International Conference on Model Driven Engineering Languages and Systems : Companion Proceedings, 2020, Virtual.

#### Dissertations

Oct 2019 - Dec 2022	<b>PhD Thesis</b> : A Testing Framework for Executable Domain-Specific Languages Under Supervision of Prof. Gerson Sunyé, Dr. Jean-Marie Mottu, and Dr. Erwan Bousse
2017 - 2019	<b>MSc Thesis</b> : Model-Driven Methodology for developing Serious games in the context of Business Processes Under Supervision of Dr. Raman Ramsin

#### Collaborations

- Feb - May 2022 **Visiting Researcher at Universidad Autónoma de Madrid (UAM)**  
 Collaborative research on test amplification in the context of executable DSLs  
 Working with Dr. Pablo Gómez-Abajo under supervision of Prof. Juan de Lara and Prof. Esther Guerra  
 Miso research group of UAM University (Madrid, Spain)
- Oct - Dec 2021 **Visiting Researcher at Johannes Kepler University (JKU)**  
 Collaborative research on coverage computation and fault localization of executable models  
 Working with Dr. Antonio Garmendia under supervision of Prof. Manuel Wimmer  
 Department of Business Informatics – Software Engineering (WIN-SE) at JKU University (Linz, Austria)

## OUTREACH AND VOLUNTEERING

- Summer 2023 External reviewer of the MODELS'23, Program committee member of the ME, the MLE, and the LowCode Workshops (all co-located with the MODELS'23)
- Summer 2022 External reviewer of the MODELS'22, Program committee member of the Tools & Demonstration track of MODELS'22, Organizing committee member of the MLE workshop (co-located with MODELS'22)
- Summer 2022 Student Volunteer in the Software Technologies : Applications and Foundations conference (STAF)
- Fall 2021 Student Volunteer in the MODELS'21 – Virtual
- Spring 2021 External reviewer of the 36th ACM/SIGAPP Symposium On Applied Computing (SAC) conference
- Summer 2020 External reviewer of the MODELS'20
- Summer 2018 Participant in Cornel- Maryland- Max Planck Pre-Doctoral Research School  
 Max Planck Institute for Software Systems, Saarbrucken, Germany
- Summer 2017 Participant in the International Business Analysis Summer School  
 Polytechnic University, St. Petersburg, Russia

## HONORS AND AWARDS

- Spring 2023 Second place for the GDR-GPL 2022 thesis prize : a French prize given to the best Ph.D. thesis of the year in the context of programming and software engineering
- Spring 2021 Best Paper Award from 17th European Conference on Modeling Foundations and Applications (ECMFA)
- Fall 2019 Ranked 6th out of 26 MSc graduates of Software Engineering
- Spring 2018 Member of Iran's National Elites Foundation (INEF)
- Summer 2016 Ranked 31st out of more than 15000 participants  
 in the Nationwide University Entrance exam for graduate studies in Software Engineering
- Spring 2016 Ranked First out of 55 BSc graduates of Software Engineering
- Spring 2016 Ranked 2nd out of 50 participants in the first round of Academic Student Olympiad in Software Engineering

## TEACHING AND MENTORING

- Fall 2022 Teaching "Executable Modeling"  
 IMT Atlantique; Instructor : Dr. Massimo Tisi
- Spring 2018 Teaching Assistant for "Patterns in Software Engineering"  
 Sharif University of Technology; Instructor : Dr. Raman Ramsin
- Fall 2017 Teaching Assistant for "Software Development Methodologies"  
 Sharif University of Technology; Instructor : Dr. Raman Ramsin

## COMPUTER SKILLS

- Languages** Java, ATL, Epsilon, OCL, Xtext, Xtend, UML, XML, SQL, TDL
- Frameworks** Eclipse Modeling Framework (EMF), Low-Code Development Platforms (LCDPs)
- Development Tools** Eclipse ecosystem, GEMOC studio, Git, Visual Studio Code, JUnit, Mendix LCDP
- Writing Tools**  $\LaTeX$ , Microsoft Office (Word, Excel, PowerPoint)

## LANGUAGE SKILLS

- Persian ● ● ● ● ●
- English ● ● ● ● ○
- French ● ● ○ ○ ○

## HOBBIES

- > Sport especially volleyball
- > Illustration
- > Watching movies