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 Modeling and Analysis Group, Grenoble R&D Center, HUAWEI Technologies France
Jan - March 2023	Postdoctoral Researcher DiverSE group, IRISA laboratory, CNRS, University of Rennes

Education

2019 - 2022	**PhD in Software Engineering** Department of Automation, Production and Computer Sciences, IMT Atlantique, Nantes, France.
2016 - 2019	**MSc in Software Engineering** Department of Computer Engineering, Sharif University of Technology, Tehran, Iran
2012 - 2016	**BSc in Software Engineering** 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 Taromirad, 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	**PhD Thesis :** A Testing Framework for Executable Domain-Specific Languages Under Supervision of Prof. Gerson Sunyé, Dr. Jean-Marie Mottu, and Dr. Erwan Bousse
2017 – 2019	**MSc Thesis :** 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
Wording 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