Curriculum Vitae

Mahyar Karimi

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Contact Details

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Education

2023 - Ph.D. in Computer Science,

Institute of Science and Technology, Klosterneuburg, Austria.

Advisor: Prof. Thomas Henzinger

Notable Coursework (full mark is 1/5):

Formalisms in CS: 1.0

2018 - B.Sc. in Computer Engineering,

2023 University of Tehran, Tehran, Iran.

Graduated as one of the top 10 students in my class.

Thesis advisor: Prof. Hossein Hojjat

Notable Coursework (full mark is 20/20):

Software testing: 19.4, Database design: 19.1, Distributed systems: 17.8, Cyber-physical systems: 16.3, Software engineering: 17.8, Internet engineering: 18.4.

Research Experience

06.2023 -	Research intern,	Institute of Science and	Technology .	Austria (ISTA)
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09.2023 Worked under the supervision of Prof. Thomas Henzinger,

on Learner-Verifier frameworks for system reachability and safety.

07.2022 - Research intern, Institute of Science and Technology Austria (ISTA)

09.2022 Worked under the supervision of Prof. Thomas Henzinger,

on Monitoring fairness of decision-making processes.

2021 - Research assistant, University of Tehran

2023 Collaborated with Prof. Hossein Hojjat and Amir Hossein Seyhani,

on Causality in event structures.

Industry Experience

2022–3 **Software engineer,** Divar.

Worked in teams job finding and customer trust.

Related skills: Microservices architecture, Django, CI/CD, Scrum, Kanban

2021 Infrastructure intern, Tapsell.

Implemented a simple query caching mechanism, with Redis as the cache.

Related skills: Kubernetes, Redis, Nginx, Docker

Teaching Experience

2020 – University of Tehran

2022 Teaching assistant in the following courses:

- Advanced Programming (Lecturer: Prof. Ramtin Khosravi)
- Data Structures (Lecturer: Prof. Fathiyeh Faghih)

Extracurricular Coursework

05.2023	Functional Program Design in Scala, Lecturer: Prof. Martin Odersky (EPFL).
03.2023	Functional Programming Principles in Scala, Lecturer: Prof. Martin Odersky (EPFL).
11.2023	Supervised Machine Learning: Regression and Classification.

Awards & Honors

2022	Research scholarship, granted by the Austrian Agency for Education and In-
	ternationalisation (OeAD-GmbH).

Lecturer: Prof. Andrew Ng (course offered by DeepLearning.AI).

Top 1% among all applicants to the ISTernship* program.

* ISTA summer internship

Publications

Refereed Conference Papers

- [1] Thomas Henzinger, Mahyar Karimi, Konstantin Kueffner, and Kaushik Mallik. Runtime monitoring of dynamic fairness properties. In *Proceedings of the 2023 ACM Conference on Fairness, Accountability, and Transparency*, FAccT '23, page 604–614, New York, NY, USA, 2023. Association for Computing Machinery.
- [2] Thomas A. Henzinger, Mahyar Karimi, Konstantin Kueffner, and Kaushik Mallik. Monitoring algorithmic fairness. In Constantin Enea and Akash Lal, editors, *Computer Aided Verification*, pages 358–382, Cham, 2023. Springer Nature Switzerland.