

# Ali Zeynali

## PERSONAL DATA

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BIRTHDAY: 22 June 1996

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## EDUCATION

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2019-PRESENT	MS/Ph.D. Student in COMPUTER SCIENCE, <b>University of Massachussets, Amherst</b> CO-ADVISORS: MOHAMMAD HAJIESMAILI, RAMESH SITARAMAN GPA: 4.0/4.0
2014-2019	Bachelor of Science in COMPUTER ENGINEERING, <b>Sharif University of Technology (SUT)</b> , Tehran Software branch GPA: 18.27/20.0 (equiv. 4.0/4.0)

## RESEARCH INTEREST

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Online learning algorithms, Optimization, Machine learning

## PUBLICATIONS

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- **Published** Bo Sun, Ali Zeynali, Tongxin Li, Mohammad Hajiesmaili, Adam Wierman, Danny HK Tsang; **Competitive Algorithms for the Online Multiple Knapsack Problem with Application to Electric Vehicle Charging**; *ACM Sigmetrics*; 2021
- **Published** Ali Zeynali, Bo Sun, Mohammad Hajiesmaili, Adam Wierman; **Data-driven Competitive Algorithms for Online Knapsack and Set Cover**; *AAAI*; 2021
- **Under review** Optimal Competitive Algorithms for Online Multidimensional Knapsack Problems

## RESEARCH PROJECTS

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2020-Now	Online Bitrate Selection for 360 video streams. Supervisors: Dr. Mohammad Hajiesmaili - Dr. Ramesh Sitaraman University of Massachusetts, Amherst, USA
2019-Now	Multilingual clustering especially for news published about Covid19 Supervisor: Dr. Przemyslaw Grabowicz University of Massachusetts Amherst, USA
2019-2020	Optimization of online algorithms with worst-case guarantees and also good performance on real inputs Supervisor: Dr. Mohammad Hajiesmaili University of Massachusetts, Amherst, USA
2019-2020	Competitive Algorithms for the Online Multiple Knapsack/Online One-way Trading Problem with Application to Electric Vehicle Charging Supervisor: Dr. Mohammad Hajiesmaili University of Massachusetts Amherst, USA
2018-2019	Analyzing of cell-free tumor DNA (cfDNA) samples for detecting cancer Supervisor: Dr. Ali Sharifi-Zarchi Sharif University of Technology, Tehran, Iran

## HONORS AND AWARD

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SUMMER 2021	Donald F. Towsley Graduate Scholarship, University of Massachusetts, Amherst
SUMMER 2019	Selected in Top-Ten (among 177) B.Sc. students of computer engineering department, Sharif University of Technology
FALL 2016	Ranked 24 <sup>th</sup> among 1823 teams in 10 <sup>th</sup> IEEEEXTREME, <a href="#">24<sup>h</sup> programming contest</a>
SUMMER 2014	Golden Medalist of 8 <sup>th</sup> IOAA (International Olympiad on Astronomy and Astrophysics in Romania) among more than 200 international students
SUMMER 2013	Golden Medalist of 9 <sup>th</sup> National Olympiad on Astronomy and Astrophysics, among more than 5,000 students

## COMPUTER SKILL

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PROGRAMMING LANGUAGES:	Python, Java, C++
PYTHON LIBRARIES	Scikit-learn, Numpy, Keras, Tensorflow
TOOLS	Git, mySQL, Postgresql
WEB	Django, HTML, CSS
OTHER	Bash Programming, LINUX, $\LaTeX$

## WORK EXPERIENCE

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MAY 2021-PRESENT	<b>Data Science and Machine Learning Research Intern</b> Adobe, San Jose, USA
APRIL-DECEMBER 2017	<b>Data Scientist Intern (unpaid)</b> Nullatech (start-up company), Tehran
2014-2018	<b>Science Olympiad Teacher</b> at: National Young Scholar Club (YSC), Tehran, Iran Farzanegan and Allame Helli High Schoool (NODET), Tehran, Iran Allame-Tabatabaei High Schoool, Tehran, Iran Mofid High Schoool, Tehran, Iran

## TEACHING ASSISTANT EXPERIENCE

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SPRING 2020 FALL 2019	Java programming Instructors: Dr. THOTA and Anderson <b>UMass, Amherst</b>
FALL 2018	Computer networks Instructors: Dr. JAFARI <b>Sharif University of Technology (SUT), Tehran</b>
FALL 2018	System analysis and design Instructors: Dr. FAZLI <b>Sharif University of Technology (SUT), Tehran</b>
SPRING 2018	Database design Instructors: Dr. HEYDARNOORI <b>Sharif University of Technology (SUT), Tehran</b>
SPRING 2018 FALL 2017	Theory of languages and machines (Automata) Instructors: Prof. MOVAGHAR - Dr. IZADI <b>Sharif University of Technology (SUT), Tehran</b>
SPRING 2018 SPRING 2016	Data structures and algorithms Instructors: Dr. SHARIFI ZARCHI - Dr. RABIEI and Dr. HOSSEINI <b>Sharif University of Technology (SUT), Tehran</b>
SPRING 2018	Probability and statistics Instructors: Dr. JAFARI <b>Sharif University of Technology (SUT), Tehran</b>

## RELATED COURSE

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Course	Grade in 4.0 Scale	Organization
Advanced algorithm (Graduate)	4.0	UMass
Machine learning (Graduate)	4.0	UMass
Artificial intelligence(Graduate)	4.0	UMass
Social and economic networks (Graduate)	4.0	SUT
Artificial intelligence	4.0	SUT

Probability and statistics	4.0	SUT
Design of algorithms	4.0	SUT
Database design	4.0	SUT
Data structure and algorithms	4.0	SUT