

ALI ZEYNALI

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in LinkedIn ♦ ali-zeynali.github.io/home/ ♦ G Github ♦ G-Scholar

EDUCATION

M.Sc./Ph.D. of Computer Science, University of Massachusetts Amherst - GPA: 4.0/4.0 2019 - Present

B.Sc. of Computer Engineering, Sharif University of Technology - GPA: 18.5/20.0 2014 - 2019

WORK EXPERIENCE

**Software Engineering Intern**  
**Google LLC.**, Mountain View Jan 2022- May 2022

- Developed a high accurate machine learning model for interest matching points problem
- Enhanced the performance of previous models up to 50% with the final implementation
- Skills: Deep Learning, Computer Vision, Image Processing, Tensorflow

**Data Science and ML Research Intern**  
**Adobe Inc.**, San Jose May 2021- Aug 2021

- Enhanced streaming model of Adobe liquid-mode.
- Improved QoE and wasted bandwidth by 20%
- Skills: Prediction Models, Online Decision Making, Data Analysis, Statistics

**Data Scientist Intern** May 2017 - Nov 2017  
**Nullatech (start-up company)**

**Science Olympiad Tutor and Program Manager**  
**National Young Scholar Club** Jan 2014 - Aug 2018

INTERESTS

- Online learning and optimization
- Trustworthy machine learning algorithms
- Responsible AI

SELECTED PROJECTS

**VSE360: Online 360-degree video streaming simulation environment**  
Fully simulated Python environment to evaluate 360-degree video bitrate control algorithms [Github]

**AI-Generated music using Deep LSTM**  
Generating music using deep LSTM networks [Github]

**AI-Generated short stories by bi-LSTM**  
Generating short/tiny stories with deep LSTM [Github]

**ZeySed: DNN for leave classification**  
Classifying image of leaves using deep neural networks [Github]

SKILLS

Machine Learning	Deep neural networks, Reinforcement learning, Statistical data analysis
Programming Languages	Python, Java, C++, C#
Deep Learning	Tensorflow, Keras, PyTorch, ONNX
Data Analysis	Data visualization, Numpy, Pandas, Scikit-learn, SciPy, Gurobi, CVXPY
Development Tools	Git, SQL, mySQL, PostgreSQL, Docker
Web Development	Django, HTML, CSS
Additional Skills	Jupyter, Agile software development, Object oriented programming, L <sup>A</sup> T <sub>E</sub> X

SELECTED PUBLICATIONS

- Submitted** Ali Zeynali, Shahin Kamali, Mohammad H. Hajiesmaili; *Robust Learning-Augmented Dictionaries*
- Accepted** Ali Zeynali, Mohammad H. Hajiesmaili, Ramesh K. Sitaraman; **BOLA360: Near-optimal View and Bitrate Adaptation for 360-degree Video Streaming**; *ACM Multimedia Systems*; 2024
- Accepted** Mahsa Sahebdel, Ali Zeynali, Noman Bashir, Prashant Shenoy, Mohammad H. Hajiesmaili; **A Holistic Approach for Equity-aware Carbon Reduction of Ridesharing Platforms**; *ACM e-Energy*; 2024

- **Published**     *Mahsa Sahebdel, Ali Zeynali, Noman Bashir, Mohammad H. Hajiesmaili, Jimi Oke; **Poster: Data-driven Algorithms for Reducing the Carbon Footprint of Ride-sharing Ecosystems**; ACM e-Energy; 2023*
- **Published**     *Xi Chen, Ali Zeynali, Chico Camargo, Fabian Flock, Devin Gaffney, Przemyslaw Grabowicz, Scott Hale, David Jurgens, Mattia Samory; **SemEval-2022 Task 8: Multilingual news article similarity**; 16th International Workshop on Semantic Evaluation (SemEval); 2022*
- **Published**     *Lin Yang, Ali Zeynali, Mohammad H. Hajiesmaili, Ramesh K. Sitaraman, Don Towsley; **Competitive Algorithms for Online Multidimensional Knapsack Problems**; ACM Sigmetrics; 2022*
- **Published**     *Ali Zeynali, Bo Sun, Mohammad H. Hajiesmaili, Adam Wierman; **Data-driven Competitive Algorithms for Online Knapsack and Set Cover**; AAAI; 2021*
- **Published**     *Bo Sun, Ali Zeynali, Tongxin Li, Mohammad H. Hajiesmaili, Adam Wierman, Danny HK Tsang; **Competitive Algorithms for the Online Multiple Knapsack Problem with Application to Electric Vehicle Charging**; ACM Sigmetrics; 2021*

## HONORS AND AWARDS

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<b>Thesis Proposal Writing Fellowship Award</b> University of Massachusetts, Amherst	Fall 2023
<b>Nominated for the Microsoft Research Fellowship by the CICS Department</b> University of Massachusetts, Amherst	Summer 2021
<b>Donald F. Towsley Graduate Scholarship</b> University of Massachusetts, Amherst	Summer 2021
<b>Selected in Top-Ten (among 177) B.Sc. students of computer engineering department</b>	Summer 2019
<b>Ranked 24<sup>th</sup> among 1823 teams in 10<sup>th</sup> IEEEEXTREME, 24<sup>h</sup> programming contest</b>	Fall 2016
<b>Golden Medalist of 8<sup>th</sup> International Olympiad IOAA in Romania</b> Among more than 200 international students	Summer 2014
<b>Golden Medalist of 9<sup>th</sup> National Science Olympiad NOAA</b> Among more than 5,000 students	Summer 2013

## RELATED COURSES

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### Graduate Courses:

Neural Networks, Database design and implementation, Advanced algorithm, Machine learning, Artificial intelligence, Social and economic networks

### Undergraduate Courses:

Artificial intelligence, Probability and statistics, Design of algorithms, Database design, Data structure and algorithms

### Online courses:

Career Essentials in Generative AI (LinkedIn learning)