





# ALI ZEYNALI

azeynali@umass.edu ♦ alizeinali75@gmail.com

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

## EDUCATION

**MS / PhD of Computer Science**, University of Massachusetts Amherst - GPA: 4.0/4.0 2019 - Present

**Bachelor of Science in Computer Engineering**, Sharif University of Technology 2014 - 2019

## INTERESTS

Online learning and optimization, Trustworthy machine learning

## WORK EXPERIENCE

**Machine Learning Data Scientist Intern** - [SiriusXM and Pandora](#) - Oakland Jun 2024- Aug 2024

- Developed a framework to explain the similarity of a query and a document retrieved by a search ranking model.
- Skills: NLP, LLM, Attention based Models, Search

**Software Engineering Intern** - [Google LLC](#) - Mountain View Jan 2022- May 2022

- Developed a highly accurate model to address the 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 Machine Learning Research Intern** - [Adobe Inc.](#) - San Jose May 2021- Aug 2021

- Enhanced streaming model of Adobe liquid-mode PDF, ensuring seamless performance in offline/online.
- Improved quality of experience and wasted bandwidth both up to 20% with the final model.
- Skills: Prediction Models, Online Decision Making, Data Analysis, Statistics.

**Data Scientist Intern** - [Nullatech \(start-up company\)](#) May 2017- Nov 2017

**Science Olympiad Tutor and Program Manager** - [National Young Scholar Club](#) Jan 2014- Aug 2018

## SKILLS

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

## 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 Learning + LSTM**

Generating music using deep learning techniques, and LSTM networks. [Github]

**AI-Generated short stories using bidirectional LSTM**

Generating short/tiny stories with deep LSTM. [Github]

**ZeySed: Deep neural networks for leave classification**

Classifying image of leaves using deep neural networks. [Github]

## SELECTED PUBLICATIONS

- **Accepted**     *Ali Zeynali, Shahin Kamali, Mohammad H. Hajiesmaili; **Robust Learning-Augmented Dictionaries**; ICML; 2024*
- **Published**     *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**     *Ali Zeynali, Mohammad H. Hajiesmaili, Ramesh K. Sitaraman; **BOLA360: Near-optimal View and Bitrate Adaptation for 360-degree Video Streaming**; ACM Multimedia Systems; 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>Recipient of Thesis Proposal 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>Recipient of 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:

Deep Generative Models, 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)