





ALI ZEYNALI

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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, Responsible AI

WORK EXPERIENCE

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

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, \LaTeX

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

- **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

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

RELATED COURSES

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)