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 Universiyt of Technology 2014 - 2019

INTERESTS

Online learning and optimization, Trustworthy machine learning, Responsible AI

WORK EXPERIENCE

Software Enineering 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 evironment
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*

- **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** ***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

Recipient of Thesis Proposal Fellowship Award Fall 2023
University of Massachusetts, Amherst

Nominated for the Microsoft Research Fellowship by the CICS Department Summer 2021
University of Massachusetts, Amherst

Recipient of Donald F. Towsley Graduate Scholarship Summer 2021
University of Massachusetts, Amherst

Selected in Top-Ten (among 177) B.Sc. students of computer engineering department Summer 2019

Ranked 24$^{\text{th}}$ among 1823 teams in 10$^{\text{th}}$ IEEEXTREME, 24^h **programming contest** Fall 2016

Golden Medalist of 8$^{\text{th}}$ International Olympiad IOAA in Romania Summer 2014
Among more than 200 international students

Golden Medalist of 9$^{\text{th}}$ National Science Olympiad NOAA Summer 2013
Among more than 5,000 students

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)