ALI ZEYNALI

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EDUCATION

Ph.D. Student in Computer Science, University of Massachusetts Amherst   2022- Present
Co-Advisors: Ramesh K. Sitaraman, Mohammad H. Hajiesmaili
GPA: 4.0/4.0

MS Student in Computer Science, University of Massachusetts Amherst   2019- 2022
Co-Advisors: Ramesh K. Sitaraman, Mohammad H. Hajiesmaili
GPA: 4.0/4.0

Bachelor of Science in Computer Engineering, Sharif University of Technology (SUT), Tehran   2014- 2019
GPA: 18.27/20.0 (equiv. 4.0/4.0)

INTERESTS

Online learning, Online optimization, Multimedia systems, Machine learning

SKILLS

General Skills	Deep learning, Machine learning, Reinforcement learning, Statistical analysis
Programming languages	Python, Java, C++, C#
Learning Libraries	Tensorflow, Keras, PyTorch, ONNX
Libraries	Numpy, Pandas, Scikit-learn, SciPy, Gurobi, CVXPY
Tools	Git, mySQL, PostgreSQL
Web	Django, HTML, CSS
Other	Agile Software Development, Bash, Linux/Windows/macOS, LATEX

WORK EXPERIENCE

Software Enineering Intern   Jan 2022- May 2022
Google LLC., Mountain View, USA

Data Science and Machine Learning Research Intern   May 2021- Aug 2021
Adobe Inc., San Jose, USA

PUBLICATIONS

- **Under Submission**   *Ali Zeynali, Shahin Kamali, Mohammad H. Hajiesmaili; Robust Learning-Augmented Dictionaries*

- **Under Review**   *Ali Zeynali, Mohammad H. Hajiesmaili, Ramesh K. Sitaraman;* **BOLA360: Near-optimal View and Bitrate Adaptation for 360-degree Video Streaming***; arXiv; 2023*

- **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

SELECTED PROJECTS

VSE360: Online 360-degree video streaming simulation evironment
Fully simulated python environment to evaluate 360-degree ABR 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]

HONORS AND AWARDS

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

RELATED COURSES

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)