

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, Responsible AI

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	Agile software wevelopment, Object oriented programming, L ^A T _E X

WORK EXPERIENCE

Research Software Enineering Intern Jan 2022- May 2022

Google LLC., Mountain View, USA

Developed a highly accurate model to address the interest matching points problem by employing image processing and machine learning techniques, including depth detection, and image perspective detection/modification. Successfully enhanced the performance of SOTA models by up to 50% with the final implementation.

Data Science and Machine Learning Research Intern May 2021- Aug 2021

Adobe Inc., San Jose, USA

Focused on enhancing user experience by optimizing PDF file interactions in liquid-mode, ensuring seamless performance in both offline and online streaming modes.

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 environment

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 24th among 1823 teams in 10th IEEEEXTREME, 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)