

YUAN LI

Computer Science

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EDUCATION

Ph. D. in Computer Science	2021
University of North Texas	Denton, Texas; USA
MS in Computer Science	2015
University of North Texas	Denton, Texas; USA
B.E. in Pharmaceutical Engineering	2010
Tianjin Polytechnic University (TJPU)	Tianjin, China

AWARDS/SCHOLARSHIPS

Adult Mental Health First Aid Certification	May 2021
NSF Travel Grant Winner for SEC'19	2019
Outstanding Teaching Assistant	2018 – 2019
TGS Scholarship	2016
UNIX/Linux Course Certification	March 2014

PUBLICATION

- **Yuan Li**, Haili Wang, Shuo Sun, and Bill Buckles, "Integrating Multiple Deep Learning Models to Classify Disaster Scene Videos" *IEEE High Performance Extreme Computing Conference (HPEC)*. IEEE, 2020.
- **Yuan Li**, Haili Wang, Bill Buckles, "Traffic Congestion Assessment Based on Street Level Data for On-Edge Deployment" *Proceedings of the 4th ACM/IEEE Symposium on Edge Computing*. 2019.
- Chen Qi, Tang Sihai, Hochstetler Jacob, Guo Jingda, **Li Yuan**, Fu Song, Xiong Jinbo, "Low-latency High-level Data Sharing for Connected and Autonomous Vehicles" *2019 IEEE International Conference on Industrial Internet (ICII)*. IEEE, 2019.
- **Yuan Li**, "Nonrecurrent Congestion Detection" (UNT, 2018)

TEACHING EXPERIENCE

Lecturer Georgia State University Atlanta, GA	2021 Fall - Current
• Teaching Assignment: OS & Algorithm	
Adjunct Faculty Texas Woman's University Denton, TX	2020 Spring
• Instruct students at undergraduate level in " Introduction to Algorithms" in person with enrollment of 42.	
• Administer a pre-test at the beginning of the course to assess students' background in the subject to encourage student-instructor contact.	

- Design interactive learner-focused lesson plans around basics of algorithm analysis, including graphs, greedy algorithms, divide and conquer, dynamic programming, network flow, and computational intractability.
- Collaborate with supervisor to brainstorm improvement strategies to boost academic performance.
- Assign relevant reading, assignments, and projects to reflect weekly lessons.
- Prepare and grade weekly quizzes and monthly exams.
- Supported students with weekly office hours for assignments and project problem.

Teaching Fellow | University of North Texas | Denton, TX

2020 Fall

- Instruct students at undergraduate level in " Foundations of Computing" in person and virtual sections having enrollment of 153
- Cultivate inclusive classroom environment by fostering sensitivity and awareness of different cultural, racial, ethnic, religious, and socioeconomic backgrounds.
- Create lesson plans for theoretical instruction, as well as real-world problem simulation sessions for practical learning.
- Set up distance learning technologies for live streaming for remote students and post video copies of lectures on Canvas daily.
- Collaborate with faculty and staff to adjust course curriculum.
- Designed all assignments, quizzes, and examinations for grading and evaluation purposes
- Guided students with weekly office hours for work and progress.

Teaching Assistant | University of North Texas | Denton, TX

2015 – Present

- Aiding instructor with course preparation, including collecting materials and setting up equipment.
- Reviewing lessons or lectures with students on a one-on-one basis or in small groups during office hours.
- Tracking attendance, grading assignments, and calculating grades during recitation or lab class periods.
- Assisting students with special learning requirements, including disabilities or ESL students.
- Collaborating with the instructor to identify students' issues and recommend solutions.

~Foundations of Computing	5 semesters
~Computer Science II	2 semesters
~Computer Science I	2 semesters

E2 Tutor (Exceptional Engineers) | UNT College of Engineering

2016

- Assisting students on UNT Denton Campus 5 hours a week for solving math and computer science-related problems.

PROJECTS (UNT College of Engineering)

Disaster Scene Videos Classification (2019 - Current)

- Utilized computer vision and deep learning methods to detect natural disasters, by a large-scale low-altitude disaster image dataset.
- Solving the problems of house collapse assessment, secondary geological disaster monitoring, and identification of disaster relief tents, it provides the greatest convenience for post-disaster rescue.

Auto-drive virtualization (2018 - 2019)

- Explored machine learning technologies to characterize the scalability of the auto-drive data set, the labeling congestion status based on spatial distance calculation proves effective with low overhead, making it suitable for On-Edge deployment.
- As the density of multi-instrumented vehicles with concomitant V2I facilities grows, this study paves the path to making each vehicle a traffic management center sensor.

Video Searching Engine Design (2017)

- Individual Study Researcher
- Establish a general approach for identifying instance of an object in a video-based on exemplars expressed as a template extracted from an image.

Social Networking System Design (2016)

- Created a Social Network services to allow people to share information with friends and colleagues.
- Designed relational database and interface for the project.

Website Redesign Full-Stack Project (2015)

- Website development – redesign the Appalachian Women's' Museum website.
- Database reconstruction – reconstruct and sort out database for the website.
- Server implementation – implemented HTML Server Controls, ASP Server Controls along with Validation Controls.

Cache Performance Evaluation Project (2015)

- Experiment Design and environment setup.
- Used SimpleScalar simulator to find out the effects of different cache block size, associativity, capacity, and replacement policy on cache performance.

PROFESSIONAL ORGANIZATIONS

Grace Hopper Celebration of Women in Computing Exhibitor	2014, 2016, 2020
IEEE membership	2019