

Yanan Da

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Education

Emory University

PhD in Computer Science, Advisor: [Emily Wall](#), GPA: 3.98/4

Atlanta, GA

Aug. 2019 - Present

Southern Illinois University Edwardsville

Master of Science in Computer Science, GPA: 3.90/4

Edwardsville, IL

Dec. 2017

Zhejiang Gongshang University

Bachelor of Engineering in Network Engineering, GPA: 3.31/4

Hangzhou, China

June 2015

Research Projects

VA-supported Bias-aware Graduate Admissions

Emory University

May 2021 - Jan. 2022

- Designed and implemented an interactive visualization system to support graduate admissions review process in collaboration with two admission committee chairs.
- The system provides both individual level and group level visualizations of reviewers' interactions with the system to promote reflection and increase awareness of potential biased behavior. Demo: <https://graduate-admission-webapp.herokuapp.com/>

Real-time Contact Tracing and Risk Monitoring via Privacy-Enhanced Mobile Tracking

Emory University

May 2019 - Aug. 2021

- Optimized the utility of contact tracing with GPS locations protected using Geo-Indistinguishability mechanism.
- Expanded a contact tracing Mobile App for COVID19 with privacy enhancement on user locations using Geo-Indistinguishability mechanism and provides risk monitoring. Source code: <https://github.com/Emory-AIMS/react/>

Work Experience

Nuance

Beijing, China

Software Engineer

Mar 2019 - July 2019

- Designed and developed dialogue use cases for in-car voice assistants.
- Implemented smart windshield feature for a demo car that utilizes the windshield as a projection surface so the driver can interact with the assistant without taking eyes off the road.

Illinois Prescription Monitoring Program

Springfield, IL

Database Associate

May 2018 - Oct 2018

- Designed and maintained SQL queries for automatic table back up, cleaning and update.
- Conducted data verification and analysis over prescription data tables with billions of records.

Skills

Programming Language (proficient) Python, C++ (familiar) Java, JavaScript, HTML, CSS

Web Development Angular, Flask

Data Visualization D3, Vega-Lite

Databases MySQL, MS SQL Server

Machine Learning Tools PyTorch, Scikit-learn

Awards

Outstanding Graduate Student (SIUE Computer Science Department)

Jan. 2017

Competitive Graduate Award (SIUE Computer Science Department)

Aug. 2015

Publications

Y. Da, R. Ahuja, L. Xiong, and C. Shahabi, "React: Real-time contact tracing and risk monitoring via privacy-enhanced mobile tracking," in 2021 IEEE 37th International Conference on Data Engineering (ICDE). IEEE, 2021, pp. 2729–2732.

Services

Student Volunteer | IEEE VIS

2021-2022