

# Yanan Da

618-795-5669 | [yanan.da@emory.edu](mailto:yanan.da@emory.edu) | [yananda.github.io](https://yananda.github.io)

## 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