

# XUEMING XU

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## EDUCATION

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### Shanghai Jiao Tong University

*August 2021*

Bachelor Degree in Electrical & Computer Engineering

Overall GPA: 3.76/4.0

### University of Michigan, Ann Arbor

*May 2021*

Bachelor Degree in Computer Science

Overall GPA: 4.0/4.0

## PROJECT EXPERIENCE

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### Instagram Web Development

*January 2020 - February 2020*

*EECS485 Course Project*

*Group Leader*

- Built a clientside dynamic Instagram web application achieving most functions of real Instagram
- Designed the appealing front-end user interface

### Temperature Field Reconstruction of a Boiler Furnace Based on Acoustic Tomography (Matlab)

*May 2019 - March 2020*

*Undergraduate Research Program*

*Group Member*

- Transform the problem mathematically and research on the reconstruction algorithms
- Apply truncated singular value method, Tikhonov regression, algebraic reconstruction method and Gaussian Process Regression to solve the transformed problem
- Visualize the reconstructed temperature field

### Airline(Network) Revenue Management (Python)

*May 2019 - August 2019*

*In-class Project*

- Mathematically modelled the airline revenue management problem as a multi-armed bandit problem
- Designed an algorithm for reduced fully-informed problem with fluid approximation and convex optimization
- Furthered the algorithm to uninformed problem using constrained UCB and TS
- Analyzed corresponding regret for the above algorithms

## AWARDS & HONOURS

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**Bronze Medal Winner in The 2018 University Physics Competition**

*November 2018*

**Undergraduate Excellent Scholarship of Shanghai Jiao Tong University**

*November 2018*

**Outstanding Volunteer of SK Sunny Young Volunteer Group**

*July 2018*

**Outstanding Officer of UM-SJTU Joint Institute Student Union**

*June 2018*

**John Wu&Jane Sun Talent Scholarship of Shanghai Jiao Tong University**

*September 2017*

## SKILLS

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**Languages**

Chinese, English

**Programming**

Python, C++, Java, Javascript, HTML, CSS, Matlab