XUEMING XU

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EDUCATION

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

Temperature Field Reconstruction of a Boiler Furnace
Based on Acoustic Tomography (Matlab)   *May 2019 - Present*
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

Wearable Bluetooth Device Development (JAVA)   *May 2019 - Sept 2019*
Undergraduate Research Program   *Group Member*

· Build a pee-detection Bluetooth device designed for babies
· Develop an Android application for parents monitoring

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

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

Languages	Chinese, English
Programming	Matlab, Python, C++, Java