

Wang, Xieheng

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Tsinghua University
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EDUCATION

Tsinghua University

Sep 2019 - Jun 2023

Undergraduate of Measurement, Control Technology and Instruments,
Department of Precision Instrument

Beijing, China

- GPA: 3.73/4.00 (Ranking: 20/56)
- Relevant Coursework: Calculus A(1) (A), Calculus A(2) (A), Linear Algebra (A-), Probability and Statistics (A-), Programming Fundamentals (A-), Theoretical Mechanics (A-), Introduction to Complex Analysis (A-), Machine Learning and Brain Inspired Intelligence, Fundamentals of Statistical Signal Processing (A-)

Tsinghua University

Mar 2021 - Jun 2023

Undergraduate of Statistics (Minor), Department of Industrial Engineering

Beijing, China

- GPA: 3.89/4.00
- Relevant Coursework: Elementary Probability Theory, Statistical Inference (A), Multivariate Statistical Analysis, Linear Regression Analysis (A-), Introduction to Causal Inference (A-), Introduction to Data Science, Introduction to Bayesian Statistics (A-), Applied Time Series Analysis (A-)

RESEARCH EXPERIENCE

Tsinghua University (Center for Statistical Science)

Oct 2021 - Present

Mentor: Jingyi Zhang (Assistant Professor at the Center for Statistical Science)

Topic: *Application of POTD(Principal Optimal Transport Direction) on Simulation Data and Real Dataset*

Responsibilities: literature review, applied TD-SDR(a method proposed for linear dimension reduction based on POTD) on some simulation data and compare the result with some traditional SDR methods, applied POTD on MQTT-IoT-IDS2020 dataset to extract features distinguishing different attacking ways.

Tsinghua University (Department of Precision Instrument)

Sep 2020 - Dec 2021

Mentor: Kaichun Zhao (Associate Professor at the Department of Precision Instrument)

Topic: *Design and Construction of Vision-based Quadrotor Navigation Control System*

Responsibilities: literature review, applied some popular deep-learning and visual SLAM methods on real image data obtained by drone in the environment of smoke and interruption.

HONORS & AWARDS

Academic Excellence Scholarship	Oct 2021
Sports Excellence Scholarship	Oct 2021
Academic Excellence Scholarship	Oct 2020
Sports Excellence Scholarship	Oct 2020

ADDITIONAL INFORMATION

Research Interests

- high-dimensional statistics, dimension reduction, causal inference, bayesian statistics, spatial statistics

Skills

- Familiar with R
- Python, C/C++, Matlab

Standardized Tests

- TOEFL: 102
- GRE: Verbal 154, Quant 169, AW 3.5
- CET-6: 630