

TUORUI PENG

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Education

Tsinghua University

Sep. 2019 – (June 2023)

Bachelor of Science in Physics, with Statistics Minor

Beijing

- Major GPA 3.77/4.0, Minor GPA 3.95/4.0

Relevant Coursework & Modules

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|------------------|---------------------------|-------------------------|--------------------------|
| • Calculus | • Statistical Inference | • Statistical Computing | • Survival Analysis |
| • Linear Algebra | • Multivariate Statistics | • Intro to Data Science | • Machine Learning |
| • Probability | • Linear Regression | • Time Series Analysis | • Intro to Biostatistics |

Experience

Department of Statistics and Data Science, NUS

June 2022 – Present

Remote Research Assistant

Beijing

- Studied landscape modification in Simulated Annealing, especially on discrete Hamiltonian, to speed up sampling and optimization process;
- Focused on applicability of spin glass model and replica symmetric theory in explanation of landscape modification.

Center of Statistical Science, Tsinghua Univ.

Dec. 2021 – July 2022

Student Research Assistant

Beijing

- Crawled and parsed case-report articles on PubMed to form the PubMed-Center-Patient large-scale dataset of Electronic Medical Record;
- Used PMC-Patient as seed dataset to fine-tune language model for crawling the whole PubMed OA;
- Mapped the citation graph as patients link as database for retrieval system.
- Crawled and parsed medical entity relation pairs from public medical websites to form knowledge graph.

Department of Physics, Tsinghua Univ.

Jan. 2021 – Nov. 2021

Student Research Training

Beijing

- Studied on heterogenous junction between metal electrode and low-dimensional semiconductor MoS₂ to explore the characteristic and production technique;
- Further explored the usage of low-dimensional materials in ionic micro-device.

Skills

Programming: R, Python, C, L^AT_EX, Mathematica

Developer Tools: VS Code, R Studio

Languages: English *with ielts 7.0*, Chinese

Honors & Rewards

Honorable Mention, Mathematical Contest In Modeling (2022)

Scholarship for Academic Advance (2020)