

XINYI YANG

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EDUCATION

Tsinghua University, Beijing, China
Department of Automation

Sept, 2021 - Present
GPA: 3.96/4.00, RANK: 4/148 (3%)

COURSEWORK

Courses:

- **Math:** Linear Algebra (A+), Discrete Mathematics (A+), Calculus, Random Mathematics and Statistics, Opsearch
- **Programming:** Computer Languages and Programming (A+), Object-Oriented Programming, Data Structures, Principles and Systems of Computer
- **AI:** Pattern Recognition and Machine Learning, Cognitive Reasoning

Awards and Scholarships:

- Comprehensive Merit Scholarship, Tsinghua University, 2022-2023 (fifth place)
- Academic Excellence Scholarship, Tsinghua University, 2021-2022
- Social Work Excellence Scholarship, Tsinghua University, 2021-2022
- National High School Mathematics League Second Prize, 2020

Other Information: The second Tsinghua University General Artificial Intelligence Teaching Program

RESEARCH EXPERIENCE

Preference Based Planning (submitting to NeurIPS 2024)

Jul. 2023 - May. 2024

Advised by Dr. Chi Zhang and Manjie Xu

BIGAI

- **Background:** there is usually a lot of ambiguity in the instructions given by a person, and how to follow such instructions to complete a task as the way the person expected usually requires a knowledge of her/his preference.
- **Progress:** investigated related literature, set up the environment, defining tasks, constructing a dataset, running experiments on SOTA methods, writing paper, submitting to NeurIPS 2024.
- **My Contribution:** surveying research direction, coding, building simulation environment interfaces, designing tasks, generating dataset, writing.

Sequential Manipulation Planning on Scene Graph

Jun. 2022 - Sept. 2022

Advised by Dr. Zilong Zheng

BIGAI

- **Background:** goal configurations specified on contact graphs have a high potential of planning sequential tasks that are difficult to specify using conventional planning language.
- **My Contribution:** devising algorithms, reproducing related experiments, analysing data.

Classification based on Point Cloud

Sept. 2022 - Jan. 2023

Information Processing Institute

Department of Automation, Tsinghua University

- **My Contribution:** reproducing related experiments.

SKILLS

Tools: Git, Unix Shell

Languages: C/C++, Python, MATLAB, Verilog HDL, L^AT_EX

English: CET6(595)

SOCIAL WORK

Arts Department, Student Union, Department of Automation, THU <i>Minister</i>	Sept. 2023 – Present
Arts Department, Student Union, Department of Automation, THU <i>Member</i>	Sept. 2022 – Sept. 2023
Admission Office of Jiangxi Province, THU <i>Area Leader</i>	Sept. 2023 – Present
Practice Department, Jiangxi Cultural Exchange Association, THU <i>Member</i>	Sept. 2021 – Sept. 2022
Class 13, Department of Automation, THU <i>Commissary in charge of Art</i>	Sept. 2022 – Present
Class 11, School of Economics and Management, THU <i>Commissary in charge of Art</i>	Sept. 2021 – Sept. 2022