

# Ziqing Huang

☎ +86 188-1000-7173 ✉ [hzq001227@gmail.com](mailto:hzq001227@gmail.com) 🏠 [ziqing-huang.github.io](https://ziqing-huang.github.io)

## Research Interests

---

- ◇ Natural Language Processing (NLP), especially Information Retrieval and Question Answering
- ◇ Machine Learning (ML)

## Education

---

- ◇ B. Eng. in Computer Science and Technology, Tsinghua University Aug. 2019 - Present
  - Yao Class, Institute for Interdisciplinary Information Sciences (IIIS), led by Prof. [Andrew Yao](#)
  - GPA: 3.95/4, Rank: 9/94

## Research Experience

---

- ◇ THUDM, Tsinghua University Sep. 2022 - Present

Advisor: Prof. [Zhilin Yang](#)

  - We used Large Language Models to **generate web pages from natural language**, using different levels of inputs, such as the content on the page and the description of the style.
- ◇ Princeton NLP, Princeton University Feb. 2022 - Present

Advisor: Prof. [Danqi Chen](#)

  - We widely explored the **generalization ability** of BM25 and dense models.
  - We defined **the attacks on retrieval tasks** from several different perspectives and applied **adversarial word augmentations** to show that even the state-of-the-art models are not robust under adversarial attacks.
  - Aiming for ACL 2023.
- ◇ THUNLP, Tsinghua University Aug. 2021 - Feb. 2022

Advisors: Prof. [Zhiyuan Liu](#) (Tsinghua University), Prof. [Chenyan Xiong](#) (Microsoft Research)

  - We built a strong baseline on MS MARCO passage retrieval task based on ANCE and OpenMatch.
  - We used a **memory bank** to include more negative samples in a single batch to improve retrieval performance with affordable batch size.

## Selected Course Project

---

- ◇ Open-Domain Question Answering [[Report](#)] Fall 2021

Instructor: Prof. [Zhilin Yang](#) Course project of Natural Language Processing

  - We improved the robustness of queries through data augmentation in retrieval, making the queries more information-dense by adding several types of related texts. Our improved method achieved state-of-the-art retrieval accuracy of passage retrievers.

## Selected Honors and Awards

---

- ◇ [Yao Award](#), Recognition Prize | IIIS, Tsinghua University 2022
- ◇ Academic Excellence Award | Tsinghua University 2022
- ◇ Outstanding Student Leaders | Tsinghua University 2021, 2022
- ◇ Comprehensive Excellence Award | Tsinghua University 2020, 2021
- ◇ First Place in China's College Entrance Examination (Science) | Beijing, China 2019

## Extracurricular Activities

---

- ◇ Vice President of the Student Union | IIIS, Tsinghua University Oct. 2021 - Present
- ◇ Leader of IIIS Tennis Club | IIIS, Tsinghua University Mar. 2022 - Present
- ◇ Member of the Student Union | IIIS, Tsinghua University Sep. 2020 - Oct. 2021
- ◇ Class Leader | Yao Class 92, IIIS, Tsinghua University Sep. 2020 - Sep. 2021