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# Qianqi Yan

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## EDUCATION

### University of Michigan, Ann Arbor, US

Sep. 2021 - present

B.S.E. Computer Science (Dual Degree) | Minor. Mathematics

Cumulative GPA: 3.96/4.00

### Shanghai Jiao Tong University (SJTU), Shanghai, China

Sep. 2019 - present

B.S.E. Electrical and Computer Engineering (Dual Degree)

University of Michigan-Shanghai Jiao Tong University Joint Institute (UM-SJTU JI)

Cumulative GPA: 3.74/4.00

## RESEARCH EXPERIENCE

### Situated Language and Embodied Dialogue (SLED) Lab

University of Michigan

Advisor: Joyce Chai

Jan. 2022 - present

- **Objective:** Leverage large language model (LLM) prompting and incorporate episodic memory & multimodal AI model to enable embodied agent to outperform state-of-the-art baseline in goal localization and exploration tasks in ai2THOR environment.
- **Responsibility:** Design the prompting pipeline to query GPT-3 to generate actionable plans based on the goal state and environment feedback. Collect 65k egocentric view - goal state pairs from the FILM dataset and fine-tune CLIP model to match goal states with stored frames during inference.

### SLAM Map Construction and Path Planning based on UAV Vision

Shanghai Jiao Tong University

Advisor: Shiqun Li

Sep. 2019 - Oct. 2020

- **Objective:** Design a service robot to be applied in hospital wards which is capable of navigating itself in unknown environment based on SLAM algorithm and provide customized message to patients according to their locations in the ward.
- **Responsibility:** Design and realize route planning and track deviation correction based on the experimental data from the map constructed by the SLAM algorithm.

## WORK EXPERIENCE

### Initium AI - ML Software Engineer Internship

April. 2022 - Aug. 2022

Advisor: Rada Mihalcea

- **Responsibility:** Suggest and implement methods to address people references and improve quality of summarization output. Deploy pipeline to transcribe recorded sales conversations from audio to text and summarize them

Grader of EECS 370: Intro to Computer Organization – University of Michigan

Jan. 2022 - April. 2022

IA of EECS 215: Intro to Circuits – UM-SJTU JI

May. 2021 - Aug. 2021

IA of EECS 101: Intro to Computers and Programming – UM-SJTU JI

Sep. 2020 - Jan. 2021

## RELEVANT SKILLS

**Programming Languages:** Python, C, C++, Java

**Software & Libraries:** Git, Bash, LaTeX, MATLAB, Mathematica, Verilog, Multisim, Pspice, Origin

**Language Proficiency:** Chinese (native), English (proficient, TOEFL: 106)

## EXTRACURRICULAR ACTIVITIES

Minister, JI Student Union Sports & Club Department

Sep. 2018 - Aug. 2020

President, JI Badminton Club

Oct. 2019 - Aug. 2020

## AWARDS

College of Engineering Dean's Honor List – University of Michigan

Fall 2021 - present

Silver Medal Winner of the 2020 University Physics Competition – the UPC Committee

Nov. 2020

Undergraduate Excellent Scholarship – UM-SJTU Joint Institute

Nov. 2020