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*