Jihyun (Janice) Ahn

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Programming Skills

- **Languages**: Python, Java, JavaScript, C#, CSS, HTML, MATLAB
- **Technologies**: React, Node.js, TensorFlow, Git, Quartus, Hugging Face, Lidar, ADAS

Experience

- **Penn State University** — State College, PA
  Ph.D. Research Assistant — *Aug 2023 - Present*
  - **Investigation**: Supervised by Prof. Wenpeng Yin, investigating research situation of NLP for improving LLMs' performance.
  - **Research**: conducting intensive research on LLMs for Math Word Problems, Methodology for improving LLms' reasoning process, and Hallucination of LLMs
- **IJCAI2024 Workshop** — Jeju, South Korea
  co-organizor — *March 2024 - July 2024*
  - **Coordination**: Assisted a professor in creating a website and organizing paper invitations for the workshop.
  - **Facilitation**: Collaborated with conference officials to ensure the event adhered to the schedule, facilitated participant Q&A sessions, supported presentations, and coordinated paper presentations and the awarding of the best paper accolade.
- **SureSoft** — Seoul, South Korea
  Research Internship — *May 2022 - July 2022*
  - **Data Collection**: Collected sensor data of ADAS vehicles including Lidar, IMU, GPS, and Camera, and created various testing scenarios and error determination filters for ADAS
  - **Error Analysis**: Applied Python and C# to create filters that find the point where ADAS caused the judgment error during driving and left a mark on the timeline
  - **Knowledge Sharing**: Presented summarized contents of various papers related to ADAS and ADAS testing every three weeks to team members to help widen their knowledge

Projects

- **Capital-One Capstone**: Collaborated bi-weekly to create a customer card-recommendation survey website for Capital-One, implementing Node.js, React, CSS, and HTML, while utilizing scrum, sprint, and Jira for team management.
- **Hackathon**: Developed a Chrome extension to streamline search history retrieval, utilizing CSS, HTML, and JavaScript for an intuitive user interface during a 24-hour hackathon collaboration.
- **LLMs for Math Word Problems**: Investigated current research situation of LLMs for Math Word Problems along with Datasets, LLMs, methods, and limitations, providing possible future research ideas.
- **Direct-Inverse Prompting**: Enhanced LLMs' outputs by developing discriminative prompts combining Chain of Thought and Self Consistency methods to reduce generative uncertainty, uniquely analyzing performance on benchmark datasets.

Education

- **Pennsylvania State University** — State College, PA
  Ph.D. in Computer Science; Research Area: Natural Language Process — *Aug. 2023 – Present*
- **University of Wisconsin** — Madison, WI
  Bachelor of Science in Computer Science; GPA: 3.77 — *Sep. 2021 – May. 2023*
- **Arizona State University** — Tempe, AZ
  Bachelor of Engineering in Computer Science; GPA: 3.98 — *Aug. 2019 – April. 2021*