

# Jash Parekh

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## Education

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### University of Illinois at Urbana-Champaign

Aug. 2025 – May 2027

M.Sc. in Computer Science

Champaign, IL

- ▷ Advisor: Prof. Jiawei Han
- ▷ Research Focus: Large Language Model Agents, Post-Training, Interpretability, Structured Reasoning
- ▷ GPA: 3.93 / 4.00

### University of Illinois at Urbana-Champaign

Aug. 2021 – May 2025

B.Sc. in Computer Science

Champaign, IL

- ▷ Minors in Statistics and Environmental Sciences
- ▷ GPA: 3.81 / 4.00

## Professional Experience

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### Google

May 2026 – Aug. 2026

Machine Learning Engineer Intern, YouTube Community Discovery

San Bruno, CA

- ▷ Summer 2026.

### Nvidia

Jan. 2025 – Jul. 2025

Software Engineer Intern, Autonomous Vehicle Evaluation

Santa Clara, CA

- ▷ Developed a VLM-based video analysis pipeline that automatically extracts and categorizes critical driving events from 10,000+ hours of footage.
- ▷ Implemented collision detection metrics for evaluating end-to-end self-driving models, enabling automatic training termination for underperforming models.

### Nvidia

May 2024 – Aug. 2024

Data Science Intern, Autonomous Vehicle Data Generation

Holmdel, NJ

- ▷ Architected a scalable Protobuf metadata framework managing 20,000+ hours of autonomous vehicle safety datasets across engineering teams.
- ▷ Engineered and deployed a pipeline for evaluating dataset differences, improving alignment with real-world driving metrics.

### Spatial Informatics Group

Apr. 2020 – Aug. 2021

Research Scientist

Pleasanton, CA

- ▷ Designed a globally scalable deep learning method for impervious surface detection from satellite imagery.
- ▷ Published in [Remote Sensing](#) (MDPI, 2021).

## Publications

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- ▷ [\[Under Review\]](#): Jiashuo Sun, Jimeng Shi, Yixuan Xie, Saizhuo Wang, **Jash Parekh**, Pengcheng Jiang, Zhiyi Shi, Jiajun Fan, Qinglong Zheng, Peiran Li, Shaowen Wang, Ge Liu, Jiawei Han. Retrieval is Cheap, Show Me the Code: Executable Multi-Hop Reasoning for Retrieval-Augmented Generation.
- ▷ [\[KDD 2026\]](#) [\[Oral\]](#): **Jash Parekh**, Wonbin Kweon, Joey Chan, Rezarta Islamaj, Robert Leaman, Pengcheng Jiang, Chih-Hsuan Wei, Zhizheng Wang, Zhiyong Lu, Jiawei Han. Condition-Gated Reasoning for Context-Dependent Biomedical Question Answering. [\[pdf\]](#)
- ▷ [\[Under Review\]](#): Veda Duddu, **Jash Parekh**, Andy Mao, Hanyi Min, Ziang Xiao, Vedant Das Swain, Koustuv Saha. Not My Truce: Personality Differences in AI-Mediated Workplace Negotiation. [\[pdf\]](#)
- ▷ [\[Under Review\]](#): **Jash Parekh**, Pengcheng Jiang, Jiawei Han. Structure-Augmented Reasoning Generation. [\[pdf\]](#)
- ▷ [\[Under Review\]](#): Veda Duddu, **Jash Parekh**, Andy Mao, Hanyi Min, Ziang Xiao, Vedant Das Swain, Koustuv Saha. Does AI Coaching Prepare us for Workplace Negotiations? [\[pdf\]](#)
- ▷ [\[CHI 2025\]](#): Vedant Das Swain, Qiuyue “Joy” Zhong, **Jash Parekh**, Yechan Jeon, Roy Zimmermann, Mary P. Czerwinski, Jina Suh, Varun Mishra, Koustuv Saha, Javier Hernandez. AI on My Shoulder: Supporting Emotional Labor in Front-Office Roles with an LLM-based Empathetic Coworker. [\[pdf\]](#)
- ▷ [\[Remote Sensing 2021\]](#): **Jash Parekh**, Ate Poortinga, Biplov Bhandari, Timothy Mayer, David Saah, Farrukh Chishtie. Automatic Detection of Impervious Surfaces from Remotely Sensed Data Using Deep Learning, *Remote Sensing*, 13(16):3166. [\[pdf\]](#)

## Academic Experience

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### University of Illinois at Urbana-Champaign

Champaign, IL

Graduate Research Assistant, Data Mining Group

Aug. 2025 – Present

- ▷ Working with [Prof. Jiawei Han](#) on structured retrieval, multi-hop reasoning, and RL-based post-training for knowledge-intensive natural language tasks.

Undergraduate Research Assistant, Data Mining Group

Aug. 2024 – May 2025

- ▷ Proposed a framework for constructing theme-based knowledge graphs, enhancing LLM reasoning through improved relationship extraction under [Prof. Jiawei Han](#).

Undergraduate Research Assistant, AI Reflections Lab

Mar. 2024 – May 2025

- ▷ Worked with [Prof. Koustuv Saha](#) and [Prof. Vedant Das Swain](#) to build an LLM-based tool to generate context-aware responses for customer-agent interactions; published at [CHI 2025](#).

Undergraduate Teaching Assistant, Stat 425: Statistical Modeling

Aug. 2024 – Dec. 2024

- ▷ Provided online help to students, graded assignments and exams, and proctored exams.

Undergraduate Researcher

Nov. 2021 – Apr. 2022

- ▷ Developed an algorithm analyzing radar cross-sections to identify supercooled liquid water in clouds under the guidance of [Prof. Troy Zaremba](#).

## Invited Talks

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- ▷ **2026.03** — “Condition-Gated Reasoning for Context-Dependent Biomedical Question Answering”, invited by the National Institutes of Health (NIH).
- ▷ **2025.10** — “Structure-Augmented Reasoning Generation”, invited by CS598JH, UIUC.
- ▷ **2022.04** — “Preliminary Analysis Investigating the Discrimination of Mixed and Ice Phase Clouds Using WSR-88D Radars: Results from IMPACTS”, Undergraduate Research Symposium, UIUC.

## Technical Skills

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- ▷ **Languages:** Python, C++, Java, SQL, R
- ▷ **ML Frameworks:** PyTorch, JAX, TensorFlow, Transformers, scikit-learn
- ▷ **Research Areas:** Large Language Models, Reinforcement Learning, Information Retrieval & Synthesis, Knowledge Graphs
- ▷ **Infrastructure:** CUDA, Docker, Slurm, GCP, Weights & Biases, Git

## Awards & Honors

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- ▷ [Computing Research Association](#) Outstanding Undergraduate Researcher Award, Honorable Mention (2024–25).
- ▷ Dean’s List, University of Illinois at Urbana-Champaign (4x).