# SELINA CHENG

**Research Interests**: Multimodal AI, Embodied AI, Spatial Reasoning, Vision-Language Models, Robotics

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## EDUCATION

**Macaulay Honors College at CUNY Hunter College**                           New York, New York

B.A. in Computer Science (Honors), Statistics *(Minor in Linguistics)*          *August 2023 - Present*

- **Cumulative GPA:** 3.66
- **Expected Graduation:** May 2027
- **Relevant Coursework:** AI; ML, Calculus 3; Linear Algebra; Bayesian Statistics; Brains, Minds, and Machines

## PUBLICATIONS

**Selina Cheng**, Anne Wu, Eunice Yiu, Yoav Artzi

*REMAP: Evaluating Geometric Dual Representations in Multispatial Reasoning*

ICLR 2026 Efficient Spatial Reasoning Workshop (accepted)      [OpenReview]

## SELECTED EXPERIENCE

**Cornell Tech, Cornell University**                                         New York, New York

Undergraduate Researcher (advised by Professor Yoav Artzi and Anne Wu)          *May 2025 - Present*

- Leading development of REMAP, a benchmark evaluating alignment between egocentric (first-person) and allocentric (map-based) spatial representations in multimodal models
- Designed controlled geometric task distributions across variability axes (angles, side lengths, camera placement)
- Built an end-to-end pipeline for synthetic data generation (Blender), model inference, and evaluation
- Developed a web platform to run human studies and collect behavioral baselines      [Live Study Interface]
- First-author paper accepted to ICLR 2026 Efficient Spatial Reasoning Workshop
- Extending REMAP to abstract 3D floor plan environments to bridge controlled, minimal geometric tasks and realistic indoor spatial reasoning

**New York Hall of Science**                                                 New York, New York

Science Education Facilitator                                               *Jun 2024 - May 2025*

- Performed on-stage science demonstrations for audiences of 50+ visitors every shift and facilitated hands-on exhibits

**CUNY Hunter College**                                                     New York, New York

AI Robotics Research Intern                                                 *Jul 2024 - Aug 2024*

- Researched and proposed an AI product prototype with RGB-D sensors and SLAM for the visually impaired

## PRESENTATIONS

**Selina Cheng**, Anne Wu, Yoav Artzi

*Can Vision-Language Models Do Symbol Grounding and Spatial Reasoning in Map Tasks?*

CUNY Honors Connect at Cornell Tech Symposium 2025 - Talk and Poster      [Slides, Poster]

## TECHNICAL SKILLS

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|---|---|
| **AI / ML:** | PyTorch, HuggingFace, scikit-learn, NumPy, pandas |
| **Languages:** | Python, C++, Java, TypeScript, SQL |
| **Tools:** | Git, Linux, Blender, Next.js |

## HONORS AND AWARDS

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|---|---|
| The John P. McNulty Scholars Program for Leadership in Science & Mathematics | *Apr 2025* |
| Daedalus Honors Computer Science Scholars Program | *Aug 2023* |
| Full-Tuition Merit Scholarship at Macaulay Honors College | *Aug 2023* |