

CURRENT APPOINTMENTS

- 2022-present **Assistant Professor at the University of Washington, Seattle, WA.**
Paul G. Allen School of Computer Science & Engineering
Co-director of RAIVN lab [link]
- 2026-present **Member of Technical Staff at Microsoft Superintelligence, Seattle, WA.**
Microsoft AI [link]

EDUCATION

- 2016–2021 **Ph.D. at Stanford University, Computer Science Department, Palo Alto, CA.**
GPA 4.00 Doctor of philosophy: with a **distinction in teaching**.
◦ Co-advised by: Professor Fei-Fei Li and Professor Michael Bernstein
- 2014–2016 **M.Sc. at Stanford University, Computer Science Department, Palo Alto, CA.**
GPA 3.98 Masters of science in computer science with a **distinction in research**
◦ Co-advised by: Professor Fei-Fei Li and Professor Michael Bernstein
- 2009–2013 **B.Sc. at Cornell University, Electrical and Computer Engineering Department, Ithaca, NY.**
GPA 3.85 Bachelors of science in **electrical & computer engineering** with **Magna Cum Laude**
Bachelors of science in **computer science** with **Magna Cum Laude**

PAST APPOINTMENTS

- 2024–2026 **Research Director at Allen Institute of Artificial Intelligence, Seattle, WA.**
Leading the Multimodal & Embodied AI team [link]
- 2024–2024 **Visiting Faculty at Apple, Cupertino, CA.**
Apple Machine Learning
- 2023–2024 **Visiting Faculty at Google, Mountain View, CA.**
Google Research
- 2022–2024 **Visiting Faculty at Allen Institute of Artificial Intelligence, Seattle, WA.**
PRIOR computer vision team
- 2021–2022 **Research Scientist at Facebook, Menlo Park, CA.**
Facebook Artificial Intelligence Research (FAIR)
- 2021–2022 **Affiliate Assistant Professor at the University of Washington, Seattle, WA.**
Paul G. Allen School of Computer Science & Engineering
- 2017–2021 **Instructor at Stanford University, Stanford, CA.**
Computer Science

TEACHING EXPERIENCE

INSTRUCTOR

- 2026–now **CSED 502: Computer Vision & Deep Learning at University of Washington.**
2026 Winter: taught 22 professionals with a course staff of 1 teaching assistant
- 2024–now **CSE 455: Computer Vision at University of Washington.**
2025 Winter: taught 132 students with a course staff of 6 teaching assistants
2024 Spring: taught 168 students with a course staff of 6 teaching assistants
- 2023–now **CSE 493G1: Deep Learning at University of Washington.**
2025 Spring: taught 185 students with a course staff of 8 teaching assistants
2024 Winter: taught 110 students with a course staff of 6 teaching assistants
2023 Spring: taught 90 students with a course staff of 6 teaching assistants

- 2023-2023 **CSE 599H: Artificial Intelligence vs. Intelligence Augmentation at University of Washington.**
2023 Winter: taught 20 PhD students with a course staff of 1 teaching assistant
- 2020-2021 **CS 231N: Convolutional Neural Networks for Visual Recognition at Stanford University.**
Co-instructed with Professor Fei-Fei Li and Danfei Xu
2021 Spring: taught 464 students with a course staff of 17 teaching assistants
2020 Spring: taught 578 students with a course staff of 19 teaching assistants
- 2017-2019 **CS 131: Computer Vision: Foundations and Applications at Stanford University.**
Co-instructed with Professor Juan Carlos Nieves
2019 Fall: taught 154 students with a course staff of 4 teaching assistants
2018 Fall: taught 94 students with a course staff of 3 teaching assistants
2017 Fall: taught 70 students with a course staff of 3 teaching assistants

TEACHING ASSISTANT

- 2015 **CS 131: Fundamentals of Computer Vision at Stanford University.**
2015 Fall: co-instructed by Professor Fei-Fei Li and Dr. Juan Carlos
- 2011-2013 **CS 3110: Functional Programming at Cornell University.**
2013 Spring: instructed by Professor Benjamin Ylvisaker
2012 Fall: instructed by Professor Ramin Zabih
2012 Spring: instructed by Professor Nate Foster
2011 Fall: instructed by Professor Ramin Zabih

AWARDS & RECOGNITIONS

AWARDS

- 2026 NSF Career Award 2026
- 2026 Alwire People to Watch 2026
- 2025 MIT Technology Review's 35 Innovators under 35 Asia Pacific
- 2025 Semiconductor Research Center's Joint University CoCoSys Program Award to study "Visual Reasoning"
- 2025 Samsung START Faculty Award to study "Reasoning with Perception Tokens"
- 2024 Sony Faculty Innovation Award to study "Agile Machine Learning"
- 2021 Distinction in Teaching for designing and instructing 5 courses during my Ph.D. at Stanford
- 2019 Accell Innovation Scholar
- 2018 Brown Institute of Media Innovation Magic Award to study "Learning to Engage in Conversations to Train AI Systems"
- 2015 Brown Institute for Media Innovation Award to develop "Scene Graphs"
- 2016 MIT Ph.D. Fellowship - not accepted
- 2016 Christofer Stephenson Memorial Award for best Stanford CS Thesis for the thesis titled "Visual Genome: Crowdsourced Knowledge Representations", awarded to 1 student at Stanford's Computer Science Department
- 2013 Senior Project Winner in Cornell's Electrical and Computer Engineering Department for "Wireless Sign Language Translation" - Featured on Engadget, Sleashgear, Deaftech news, Element 14, The Economic Times, etc.
- 2010-2013 Cornell Dean's list: Spring 2010, Fall 2010, Spring 2011, Fall 2011, Spring 2012, Fall 2012, Spring 2013
- 2011 HKN: National Electrical and Computer Engineering Honor Society
- 2011 Tau Beta Pi, the Engineering Honor Society

PUBLICATIONS RECOGNIZED

- ICML 2026 **Oral.**
Title: "DiScoFormer: Plug-In Density and Score Estimation with Transformers"
Awarded to top (0.7%) of submissions
- CVPR 2026 **Best Paper Award Candidate.**
Title: "Molmo2: Open Weights and Data for Vision-Language Models with Video Understanding and Grounding"
Awarded to top (0.06%) of submissions
- CVPR 2026 **Oral.**
Title: "Molmo2: Open Weights and Data for Vision-Language Models with Video Understanding and Grounding"
Awarded to top (0.7%) of submissions
- CVPR 2026 **Highlight.**
Title: "Agile Deliberation: Concept Deliberation for Subjective Visual Classification"
Awarded to top (2.5%) of submissions
- CVPR 2026 **Highlight.**
Title: "VideoNet: A Large-Scale Dataset for Domain-Specific Action Recognition"
Awarded to top (2.5%) of submissions
- EMNLP 2025 **Oral.**
Title: "LATTE: Learning to Think with Vision Specialists"
Awarded to top (1.5%) of submissions
- ICCV 2025 **Highlight.**
Title: "One Trajectory, One Token: Grounded Video Tokenization via Panoptic Sub-object Trajectory"
Awarded to top (2.5%) of submissions
- CVPR 2025 **Best Paper Honorable Mention.**
Title: "Molmo and PixMo: Open Weights and Open Data for State-of-the-Art Vision-Language Models"
Runner up to best paper award
- CVPR 2025 **Oral.**
Title: "Molmo and PixMo: Open Weights and Open Data for State-of-the-Art Vision-Language Models"
Awarded to top (0.7%) 64 of 9155 submissions
- NeurIPS 2024 **Spotlight.**
Title: "Multilingual Diversity Improves Vision-Language Representations"
Awarded to top (5%) of submissions
- CVPR 2024 **Oral.**
Title: "Visual Program Distillation: Distilling Tools and Programmatic Reasoning into Vision-Language Models"
Awarded to top (0.7%) 64 of 9155 submissions
- ICLR 2024 **Spotlight.**
Title: "Selective Visual Representations Improve Convergence and Generalization for Embodied AI"
Awarded to top (5%) 114 out of 2997 submissions
- CSCW 2023 **Best Paper Honorable Mention Award.**
Title: "Explanations can Reduce Overreliance on AI Systems during Decision-Making"
- NeurIPS 2023 **Oral.**
Title: "Quilt-1M: One Million Image-Text Pairs for Histopathology"
Awarded to top (0.6%) 77 papers out of 12000 submissions
- NeurIPS 2023 **Oral.**
Title: "DataComp: In search of the next generation of multimodal datasets"
Awarded to top (0.6%) 77 papers out of 12000 submissions
- CVPR 2023 **Highlight.**
Title: "CREPE: Can Vision-Language Foundation Models Reason Compositionally?"
Awarded to top (2.5%) 235 papers out of 9155 submissions

- ACL 2021 **Outstanding Paper Award.**
 Title: "Mind Your Outliers! Investigating the Negative Impact of Outliers on Active Learning through the Lens of Visual Question Answering"
 Awarded to top (0.2%) 7 papers out of 3350 submissions
- CSCW 2020 **Best Paper Honorable Mention Award.**
 Title: "Conceptual Metaphors Impact Perceptions of Human-AI Collaboration"
 Awarded to top (2.2%) 22 papers out of 1000+ submissions
- NeurIPS 2019 **Oral.**
 Title: "HYPER: Human eYE Perceptual Evaluations of Generative Models"
 Awarded to top (0.5%) 36 papers out of 7000 submissions
- UIST 2017 **Best Paper Honorable Mention Award.**
 Title: "Crowd Research: Open Scalable University Laboratories"
- CVPR 2017 **Spotlight.**
 Title: "A Hierarchical Approach for Generating Descriptive Image Paragraphs"
 Awarded to top 5% of submissions
- CVPR 2016 **Oral.**
 Title: "Visual Relationship Detection with Language Priors"
 Awarded to top 1% of submissions

WORKSHOP PAPERS RECOGNIZED

- CVPR 2026 **Best Paper Award.**
 Title: "VideoNet: A Large-Scale Dataset for Domain-Specific Action Recognition"
 CVPR KnowledgeMR workshop
 Awarded to one paper at the workshop
- CVPR 2026 **Outstanding Paper Award.**
 Title: "VLS: Steering Pretrained Robot Policies via Vision-Language Models"
 CVPR Foundation Models Meet Embodied Agents workshop
 Awarded to one paper at the workshop
- CVPR 2026 **Best Paper Runner Up Award.**
 Title: "VLS: Steering Pretrained Robot Policies via Vision-Language Models"
 CVPR 3D-LLM/VLA workshop
 Awarded to the top two papers at the workshop
- CVPR 2026 **Best Paper Award.**
 Title: "RefDecoder: Enhancing Visual Generation with Conditional Video Decoding"
 CVPR AI for Content Creation workshop
 Awarded to one paper at the workshop
- CVPR 2026 **CVPR Compute Transparency Champion Award.**
 Title: "VideoNet: A Large-Scale Dataset for Domain-Specific Action Recognition"
- CVPR 2026 **CVPR Compute Transparency Champion Award.**
 Title: "Molmo2: Open Weights and Data for Vision-Language Models with Video Understanding and Grounding"
- ICRA 2026 **Best Paper Award.**
 Title: "MolmoB0T: Large-Scale Simulation Enables Zero-Shot Manipulation"
 ICRA From Data to Decisions: VLA Pipelines for Real Robots
 Awarded to one paper at the workshop
- ICRA 2026 **Best Paper Award.**
 Title: "MolmoB0T: Large-Scale Simulation Enables Zero-Shot Manipulation"
 ICRA Synthetic Data for Robot Learning
 Awarded to one paper at the workshop
- ICRA 2026 **Best Paper Award.**
 Title: "MolmoB0T: Large-Scale Simulation Enables Zero-Shot Manipulation"
 ICRA From Data to Decisions: VLA Pipelines for Real Robots
 Awarded to one paper at the workshop

- CoRL 2025 **Best Paper Award.**
 Title: "SAM2Act: Integrating Visual Foundation Model with A Memory Architecture for Robotic Manipulation"
 CoRL RememberRL workshop
 Awarded to one paper at the workshop
- CoRL 2025 **Best Paper Award.**
 Title: "RoboEval: Where Robotic Manipulation Meets Structured and Scalable Evaluation"
 CoRL Eval&Deploy workshop
 Awarded to one paper at the workshop
- CoRL 2025 **Best Paper Finalist.**
 Title: "MolmoAct: Action Reasoning Models that can Reason in Space"
 CoRL Resource-Rational Robot Learning workshop
 Awarded to top 5 papers at the workshop
- CoRL 2025 **Best Paper Finalist.**
 Title: "MolmoAct: Action Reasoning Models that can Reason in Space"
 CoRL Making Sense of Data in Robotics: Composition, Curation, and Interpretability at Scale workshop
 Awarded to top 5 papers at the workshop
- NeurIPS 2023 **Best Paper Finalist.**
 Title: "Agile Modeling: From Concept to Classifier in Minutes"
 NeurIPS ReALML workshop
 Awarded to top 2 papers at the workshop

UNIVERSITY RECOGNIZED PAPERS

- ICRA 2026 **Madrona People's Choice Award.**
 Title: "MolmoAct: Action Reasoning Models that can Reason in Space"
 Awarded to Jiafei Duan
- FAccT 2025 **Best Senior Thesis Award.**
 Title: "Agonistic Image Generation"
 University of Washington
 Awarded to Andrew Shaw and Andre Ye
- ICML 2025 **Best Senior Thesis Honorable Mention.**
 Title: "SAM2Act: Integrating Visual Foundation Model with A Memory Architecture for Robotic Manipulation"
 University of Washington
 Awarded to Haoquan Fang
- ICLR 2025 **Madrona People's Choice Award.**
 Title: "AHA: A Vision-Language-Model for Detecting and Reasoning Over Failures in Robotic Manipulation"
 Awarded to Jiafei Duan
- CiDR 2023 **Madrona Most Commercializable Research Award.**
 Title: "Interactive Video Data Cleaning and Exploration"
 Awarded to Enhao Zhang and Maureen Daum

AWARDS & FELLOWSHIPS FOR PH.D. STUDENTS

- 2026 **Meta-AI Research Fellowship** awarded to Chenhao Zheng
- 2026 **Two Sigma PhD Fellowship** awarded to Zixian Ma
- 2025 **Google PhD Fellowship** awarded to George Stoica
- 2025 **Qualcomm Innovation Fellowship** awarded to Zixian Ma
- 2025 **Qualcomm Innovation Fellowship** awarded to Yushi Hu
- 2025 **MLCommons ML and Systems Rising Stars** awarded to Jieyu Zhang
- 2025 **Meta-AI Research Fellowship** awarded to Scott Geng
- 2024 **Google PhD Fellowship** awarded to Cheng-Yu Hsieh
- 2024 **Amazon PhD Fellowship** awarded to Ainaz Eftekar
- 2024 **OpenAI Fellowship** awarded to Jieyu Zhang

- 2024 **NSF Graduate Fellowship** awarded to Scott Geng
- 2024 **Apple PhD Fellowship** awarded to Jieyu Zhang
- 2023 **Taiwan Government Scholarship** from the Ministry of Education awarded to Cheng-Yu Hsieh
- 2023 **Singapore's National Science PhD Scholarship** awarded to Jiafei Duan

AWARDS & FELLOWSHIPS FOR PRE-DOCTORAL STUDENTS

- 2026 **Outstanding Senior at Allen School** awarded to Weikai Huang
- 2026 **Soros Fellowship** awarded to Ethan Shen
- 2026 **NSF Graduate Fellowship** awarded to Ethan Shen
- 2026 **NSF Graduate Fellowship** awarded to Tanush Yadav
- 2026 **CRA Outstanding Undergraduate Researcher** awarded to Haoquan Fang (given out to 8 undergrads in the country)
- 2025 **NSF Graduate Fellowship** awarded to Helena Vasconcelos
- 2025 **Stanford Outstanding Achievement** awarded to Helena Vasconcelos (given to two Stanford undergraduate seniors)
- 2025 **Soros Fellowship** awarded to Andre Ye
- 2025 **CRA Undergraduate Award** awarded to Helena Vasconcelos (given out to 8 undergrads in the country)
- 2024 **JoAnne Wisniewski Endowed Undergraduate Scholarship** awarded to Weikai Huang
- 2024 **CRA Outstanding Undergraduate Researcher** honorable Mention award to Chenhao Zheng
- 2024 **CRA Outstanding Undergraduate Researcher** honorable Mention award to Chun-Cheng Chang
- 2024 **Mary Gates Fellowship** awarded to Andre Ye

RESEARCH WORK EXPERIENCE

- 2021-2022 **Meta Fundamental Artificial Intelligence Research (FAIR), Menlo Park, CA.**
Developing multi-modal correctable models
- 2017 **Google Machine Intelligence and Perception Group, Mountain View, CA.**
Advised by Dr. Christian Szegedy
Conducted research on Neural Program Synthesis
- 2017 **Stanford Graphics Group, Stanford, CA.**
Advised by Professor Maneesh Agarwala
Spatio-temporal scene graphs
- 2016 **Facebook Artificial Intelligence Lab, New York City, NY.**
Co-advised by Dr. Armand Joulin and Dr. Laurens Van der Maaten
Studied visual relationships between objects in images
- 2014 **Cognition and Language Lab, Stanford, CA.**
Advised by Professor Michael Frank
Built a large dataset called Wordbank for learning childrens open vocabulary
- 2014-2016 **Yahoo Research, San Francisco, CA.**
Advised by Dr. David Ayman Shamma
Designed interfaces to speed up crowdsourcing by an order of magnitude
- 2010 **Integrated Circuits Design, Ithaca, NY.**
Advised by Professor Alyosha Molnar
Designed chips that are anti-symmetric angle sensitive through diffraction gratings

ENGINEERING WORK EXPERIENCE

- 2014 **Maps Enterprise Team, Google Inc., Mountain View, CA.**
Data scientist intern
Improved performance of VectorDB, the backend for Google Maps for Businesses
- 2013-2014 **Cloud and Kernel Teams, MongoDB Inc., New York City, NY.**
Software solutions architect
Revamped the company website and added HR tools for sales and recruiting
Implemented the C++ driver for MongoDB and designed and tested the redaction framework
Integrated two-factor authentication for backups, automation and monitoring
- 2013 **Adwords Team, Google Inc., Mountain View, CA.**
Software engineering intern
Created an searchable, analytically hierarchical model of the experiments conducted on adwords to optimize the quality and revenue and track these experiments
Designed and developed an evaluation tool to study NGO's that combat societal issues in the United Kingdom and India through the Google Impact Challenge
- 2013 **Open Source Ruby on Rails Contributor, Ithaca, NY.**
Cached AST's produced by SQL queries made to AREL
Added simpler build and destroy functionality to Rake, a software management tool for both mysql and postgresql databases
Abstracted away the type checking conducted by the Schema Dumper to individual databases to avoid unnecessary
- 2012 **Office Exchange Team, Microsoft Inc., Redmond, WA.**
Automated pre-build server validation for Microsoft Exchange from a manual process of 25 days to 6 minutes, saving 72% of fixed cost

NON-ENGINEERING WORK EXPERIENCE

- 2014-2016 **Stanford Venture Capital Group, Stanford, CA.**
Consulted for General Catalyst and Red Point Ventures on potential investments in specific verticals
- 2013 **Influenza Tracking, New York City, NY.**
Ran a freelance project to use e-prescriptions from patients to track the spread of influenza visually
- 2009-2012 **Cornell Desktop Support, Ithaca, NY.**
Ghosted and processed images for all the staff and faculty computers and micros in Cornell
- 2010 **Department of Economic Affairs, Ministry of Finance, New Delhi, India.**
Advised by Kaushik Basu, Chief Economist of the World Bank
Investigated and built a model on inflation targeting applications and implementations

INVITED TALKS

- 2026 **What does it mean for a machine to understand the world through sight?.**
○ Public talk at Technology Alliance Discovery Series
- 2026 **It is Time to Rethink Grounding.**
○ Keynote talk at CVPR'26 workshop on Multi-Modal Reasoning for AI Agents
- 2026 **One Model Enabling Robotics, Computer Use and Motion Modeling.**
○ Keynote talk at CVPR'26 workshop on Multimodal Learning and Applications
- 2026 **Why does it still suck? What is going on inside a vision-language model?.**
○ Keynote talk at CVPR'26 workshop on Visual Concepts
- 2026 **Reasoning models for Robotics.**
○ Keynote talk at CVPR'26 workshop on Unified Robotic Vision with Cross-Modal Sensing and Alignment
- 2026 **Making Open Robotics Reasoning Models.**
○ Keynote talk at CVPR'26 workshop on Embodied Reasoning in Action

- 2026 **Updating generative evaluations to meet modern demands.**
◦ Keynote talk at CVPR'26 workshop on Evaluation of Generative Foundation Model
- 2026 **Zero-shot Sim2Real is possible for Manipulation.**
◦ Keynote talk at CVPR'26 workshop on 3D-LLM/VLA, introducing MolmoSpaces & MolmoBot
- 2026 **Visual Reasoning by Simulating Future Steps.**
◦ Keynote talk at CVPR'26 workshop on Test-time Scaling for Computer Vision
- 2026 **Architectures for Grounded Visual Reasoning.**
◦ Keynote talk at CVPR'26 workshop on Transformers for Vision, introducing MolmoPoint & MolmoMotion
- 2026 **Truly Open, Reproducible Video-Language Models.**
◦ Keynote talk at CVPR'26 workshop on Emerging Directions in Data for Multimodal Foundation Models
- 2026 **User Controllability through Models, Interfaces Interventions.**
◦ Keynote talk at CVPR'26 workshop on AI for Visual Arts
- 2026 **Visual Reasoning is not working and we don't know why.**
◦ Keynote talk at CVPR'26 workshop on Multimodal Spatial Intelligence
- 2026 **From Vision to Action: Extracting Structure and Agency from Flat Pixels.**
◦ Keynote talk at CVPR'26 workshop on Agentic AI for Visual Media
- 2026 **Multilingual Pluralism through Dataset Interventions.**
◦ Keynote talk at CVPR'26 workshop on Multimodal Alignment for a Pluralistic Society
- 2025 **The Science of Human-AI Interaction.**
◦ CogSci 2025 workshop on Minds in the Making [\[link\]](#)
- 2025 **Making a Video Language Model.**
◦ ICCV 2025 workshop on What is Next in Multimodal Foundation Models? [\[link\]](#)
- 2025 **Behaviors & bodies: how they shape one another.**
◦ CVPR 2025 workshop on Foundation Models Meet Embodied Agents [\[link\]](#)
- 2025 **Visual Reasoning will be bigger than language reasoning.**
◦ ICCV 2025 workshop on Multimodal Spatial Intelligence [\[link\]](#)
◦ CVPR 2025 workshop on 3D Vision Language Models for Robotic Manipulation [\[link\]](#)
- 2025 **Completely Open Foundation models for Vision, Navigation, & Manipulation.**
◦ CVPR 2025 workshop on Computer Vision in the Wild [\[link\]](#)
- 2025 **Grounding VLMs for Robotics.**
◦ ICCV 2025 workshop on Multi-Modal Reasoning for Agentic Intelligence [\[link\]](#)
◦ CVPR 2025 workshop on Generalization in Robotics Manipulation [\[link\]](#)
- 2025 **Cultural and Linguistic Diversity in Vision-Language Modeling.**
◦ CVPR 2025 workshop on Demographic Diversity in Computer Vision [\[link\]](#)
- 2025 **Scale Can't Overcome Pragmatics.**
◦ RAISE symposium at the University of Washington Machine Learning [\[link\]](#)
- 2024 **Distilling capabilities into a single multimodal model.**
◦ University of Washington 2025 RAISE seminar [\[link\]](#)
◦ IndoML 2024 Indian Symposium on Machine Learning [\[link\]](#)
◦ NeurIPS 2024 workshop on Multimodal Algorithmic Reasoning [\[link\]](#)
◦ ECCV 2024 workshop on Green Foundation Models [\[link\]](#)
- 2024 **Designing open ecosystem for multimodal language models.**
◦ ECCV 2024 workshop on Efficient Deep Learning for Foundation Models [\[link\]](#)
- 2024 **Sketching as a Visual Chain of Thought.**
◦ Fifth Indian Symposium on Machine Learning (IndoML) [\[link\]](#)
- 2024 **Humans Als-in-the-loop.**
◦ CVPR 2024 workshop on Computer Vision with Humans in the Loop [\[link\]](#)

- 2024 **The Past, Present, and Future of Evaluating Multimodal Models.**
- CVPR 2024 workshop on Evaluation for Generative Foundation Models [link]
 - Naver Labs Symposium
 - Google Research Symposium
- 2023-2024 **Vision-Language Compositionality.**
- TTIC Summer 2024 Workshop on Multimodal Artificial Intelligence [link]
 - DUB Seminar 2024 at the University of Washington's [link]
 - ICCV 2023 workshop on On Closing The Loop Between Vision And Language [link]
 - CVPR 2023 workshop on New Frontiers in Vision and Language Reasoning [link]
- 2023 **Embodied Intelligence.**
- AAAI 2023 Inaugural Summer Symposium on Embodied Intelligence [link]
- 2023 **Visual Intelligence from Human Interactions.**
- Microsoft Research, Seattle, USA
- 2022 **Self-supervision for 3D Dense Visual Representations.**
- Amazon Science Hub, Seattle, USA
- 2022 **Video Organization and Interactive Analytics.**
- Cisco, Remote talk
- 2021-2023 **Visual Intelligence through Human Cognition.**
- ICCV 2023 workshop on Scene Graphs and Graph Representation Learning (SG2RL) [link]
 - CS 520 seminar talk, Stanford, USA
- 2021 **Visual Intelligence through Human Interaction.**
- ICML 2021 workshop on Human-in-the-loop learning, Virtual
 - SKC Science & Technology Webinar Series, Virtual
- 2021 **Visual Intelligence through Human Learning.**
- Yale University, New Haven, USA
 - University of Toronto, Toronto, Canada
 - Samsung, Toronto, Canada
 - Robotics Institute, Carnegie Mellon University, Pittsburgh, USA
 - Stanford University, Stanford, USA
 - University of Southern California, Los Angeles, USA
 - University of Washington, Seattle, USA
 - Cornell University, Ithaca, USA
- 2020 **Learning to Interact and Interacting to Learn.**
- Vision group, University of Austin, Texas, USA
 - Graphics group, Stanford University, Stanford, USA
 - Princeton University, Princeton, USA
 - Snap research, Los Angeles, USA
- 2020 **Conceptual Metaphors Impact Perceptions of Human-AI Collaboration .**
- Stanford Vision and Learning Lab, Stanford, CA
- 2020 **Scene Graphs as a Symbolic Visual Representation.**
- Keynote talk at CVPR workshop on Diagram Image Retrieval and Analysis, Seattle, USA [link]
- 2020 **Compositionality in Computer Vision.**
- CVPR workshop on compositionality, Seattle, USA [link]
- 2019 **Scene Graph Representation and Learning.**
- ICCV workshop on Scene Graphs, Seoul, Korea [link]
- 2019 **What's new in Computer Vision?.**
- SystemX Alliance Spring Workshop, Stanford, CA [link]
- 2019 **Learning to Engage in Conversations for AI Systems.**
- Oval Seminar, Stanford University, CA [link]
 - Thomson Reuters, New York City, NY [link]

- 2018 **Artistic Computer Vision.**
 - Stanford Vision and Learning Lab, Stanford, CA
 - Stanford HCI reading group, Stanford, CA
- 2018 **Trust and Transparency in Artificial Intelligence.**
 - MediaX at Stanford, Stanford, CA [link]
- 2018 **The Building Blocks of Computer Vision.**
 - Stanford HCI workshop, Stanford, CA
- 2017 **Beyond Perception.**
 - Indian Institute of Technology, New Delhi, India
 - Indian Institute of Technology, Guwahati, India
- 2017 **Understanding Semantics.**
 - Sanskriti High School, New Delhi, India
- 2017 **Dense-Captioning Events in Video.**
 - IEEE Conference on Computer Vision and Pattern Recognition ActivityNet Challenge Workshop
- 2016 **Visual Relationship Detection with Language Priors.**
 - European conference on Computer Vision, Amsterdam, Netherlands
 - Stanford Vision Group, Stanford, CA
 - Stanford HCI Group, Stanford, CA
- 2016 **Embracing Error to Enable Rapid Crowdsourcing.**
 - ACM Conference on Human Computer Interaction, San Jose, CA
 - Stanford HCI Group, Stanford, CA
- 2016 **Visual Genome - Crowdsourced Visual Knowledge Representations.**
 - Stanford Natural Language Processing Group, Stanford, CA
 - Stanford Vision Group, Stanford, CA

LEADERSHIP

- 2024-present Director of PRIOR team at the Allen Institute for AI
- 2022-present Principal Investigator of my own research group at the University of Washington
- 2022-present Co-director of RAIVN research group at the University of Washington
- 2016-2021 Led my own research group at Stanford at the intersection of Computer Vision and Human-Computer Interaction
- 2016-2021 Lead vision + language research sub-group at Stanford Vision and Learning Group
- 2014-2015 Elected Graduate Student Representative at Stanford Computer Science Department
- 2012-2013 Elected Second Vice President of Kappa Alpha Literary Society chapter at Cornell University
- 2011-2012 Elected Social Chair of Theta Tau, a professional engineering fraternity
- 2012-2013 Elected Officer at Association of Computer Science Undergraduates, Cornell Chapter of ACM
- 2010-2013 Elected Membership Coordinator for AIESEC - the worlds largest student organization

PROFESSIONAL ACTIVITIES

INTERNATIONAL SERVICE

- 2025 Program chair for Conference on Language Models (CoLM) 2025
- 2024 Local chair for IEEE Conference on Computer Vision and Pattern Recognition (CVPR) 2024
- 2021-2023 Guest Editor for Special Issue on Graph Learning for Computer Vision at Transactions at Pattern Analysis and Machine Intelligence (TPAMI)

WORKSHOP ORGANIZATION

- 2026 Co-organized “The 3rd Workshop on Synthetic Data for Computer Vision” workshop at IEEE International Conference on Computer Vision and Pattern Recognition (CVPR) 2026
- 2026 Co-organized “The 2nd Workshop on Multi-Modal Reasoning for AI Agents” workshop at IEEE International Conference on Computer Vision and Pattern Recognition (CVPR) 2026
- 2026 Co-organized “Cognitive Foundations for Multimodal Models” workshop at IEEE International Conference on Computer Vision and Pattern Recognition (CVPR) 2026
- 2025 Co-organized “The 2nd Workshop on Synthetic Data for Computer Vision” workshop at IEEE International Conference on Computer Vision and Pattern Recognition (CVPR) 2025
- 2024 Co-organized “Synthetic Data for Computer Vision” workshop at IEEE International Conference on Computer Vision and Pattern Recognition (CVPR) 2024
- 2024 Co-organized “Compositionality in Computer Vision” workshop at IEEE European Conference on Computer Vision (ECCV) 2024
- 2023 Co-organized “Artificial Intelligence and Human-Computer Interaction” workshop at IEEE International Conference on Machine Learning (ICML) 2023
- 2023 Co-organized “Compositionality in Computer Vision” workshop at IEEE International Conference on Computer Vision (ICCV) 2023
- 2022 Co-organized “Artificial Intelligence and Human-Computer Interaction” workshop at IEEE International Conference on Machine Learning (ICML) 2023
- 2022 Co-organized “Compositionality in Computer Vision” workshop at IEEE International Conference on Computer Vision (ECCV) 2022
- 2021 Co-organized “Compositionality in Computer Vision” workshop at IEEE International Conference on Computer Vision (ICCV) 2021
- 2020 Co-organized “International Challenge on Compositional and Multimodal Perception” workshop at IEEE European Conference on Computer Vision (ECCV) 2020
- 2019-2020 Co-organizer and Guest Editor for an IEEE TPAMI special issue on “Graphs in Computer Vision”
- 2020 Co-organized for “Compositionality in Computer Vision” workshop at IEEE Conference on Computer Vision and Pattern Recognition (CVPR) 2020 at Seattle, USA
- 2020 Co-organized “The ActivityNet Large Scale Activity Recognition Challenge” workshop at IEEE Conference on Computer Vision and Pattern Recognition (CVPR) 2020, at Seattle, USA
- 2019 Lead organizer for “Scene Graph Representation and Learning” workshop at IEEE International Conference on Computer Vision 2019 at Seoul (ICCV), Korea
- 2018 Co-organized “The ActivityNet Large Scale Activity Recognition Challenge” workshop at IEEE Conference on Computer Vision and Pattern Recognition (CVPR) 2018, at Salt Lake City, USA
- 2017 Co-organized “The ActivityNet Large Scale Activity Recognition Challenge” workshop at IEEE Conference on Computer Vision and Pattern Recognition (CVPR) 2017, at Honolulu, USA
- 2017 Program committee for “Groupsight: Workshop on Human Computation for Image and Video Analysis” workshop at The AAAI Conference on Human Computation and Crowdsourcing (HCOMP) 2017

ACADEMIC REVIEWER

- 2025-present Senior area chair for ACL
- 2025-present Lead area chair for ICCV, ECCV, CVPR
- 2021-present Area chair from UIST, NeurIPS, CVPR, ICCV
- 2016-present Reviewed papers from CVPR, CHI, UIST, CSCW, IJCV, ECCV, ICCV, TPAMI, NeurIPS, ICML

UNIVERSITY SERVICE

- 2022-present PhD admissions committee for University of Washington Computer Science & Engineering

- 2020-2021 Co-organized Stanford Human Computer Interaction group's weekly talk series
- 2018-2021 Organized Stanford Vision and Learning group's weekly talk series
- 2019-2020 Reviewed faculty applications as part of the Faculty Search Committee for Stanford's Computer Science Department
- 2019-2020 Organized Stanford Human Computer Interaction group's weekly talk series
- 2019-2020 Organized Stanford Bernstein group's weekly talk series
- 2018-2019 Reviewed Ph.D. applications for Stanford's Computer Science department as part of the Applications Committee
- 2015-2016 Organized Stanford Artificial Intelligence Entrepreneurship Club
- 2015 Organized logistics for Stanford's AI outreach summer program

DISSERTATION COMMITTEES

- 2024-present Begona Garcia
- 2023-present James Noeckel
- 2023-present Saygin Seyfioglu
- 2023-present Wisdom Oluchi Ikezogwo
- 2023-present Ananditha Raghunath
- 2023-2024 Ashish Sharma
- 2023-2024 Dong He
- 2023-2024 Fatemeh Ghezloo
- 2023-2024 Xiujun Li
- 2023-2024 Zoey Chen
- 2022-2023 Maureen Daum

BOOK CHAPTERS

- Daedalus **Searching for Computer Vision North Stars.**
2022 Li Fei-Fei, **Ranjay Krishna**
Chapter of Daedalus Special issue on "AI & Society", 2022
- Springer 2021 **Visual Intelligence through Human Interaction.**
Ranjay Krishna, Mitchell Gordon, Li Fei-Fei, Michael Bernstein
Chapter of Artificial Intelligence for Human Computer Interaction: A Modern Approach, Springer 2021

PEER-REVIEWED ACADEMIC PUBLICATIONS

- ECCV 2026 **Imaginative Perception Tokens Enhance Spatial Reasoning in Multimodal Language Models.**
Mahtab Bigverdi, Linjie Li, Weikai Huang, Jieyu Zhang, Tuhin Kundu, Zelun Luo, Chris Dongjoo Kim, Jaemin Cho, **Ranjay Krishna**, Linda Shapiro, Yiming Liu
European Conference on Computer Vision, 2026
- ECCV 2026 **Synthetic Visual Genome 2: Extracting Large-scale Spatio-Temporal Scene Graphs from Videos.**
Ziqi Gao, Jieyu Zhang, Wisdom Oluchi Ikezogwo, Jae Sung Park, Tario G You, Daniel Ogbu, Chenhao Zheng, Weikai Huang, Yinuo Yang, Winson Han, Quan Kong, Rajat Saini, **Ranjay Krishna**
European Conference on Computer Vision, 2026
- ECCV 2026 **Posterior Augmented Flow Matching.**
George Stoica, Sayak Paul, Matthew Wallingford, Abhay Nori, Vivek Ramanujan, Winson Han, Ali Farhadi, **Ranjay Krishna**, Judy Hoffman
European Conference on Computer Vision, 2026

- ECCV 2026 **MolmoWeb: Open Visual Web Agent and Open Data for the Open Web.**
Tanmay Gupta, Piper Wolters, Zixian Ma, Petr Sushko, Rock Yuren Pang, Yue Yang, Jason Ren, Harsh Trivedi, Taira Anderson, Winson Han, **Ranjay Krishna**
European Conference on Computer Vision, 2026
- ECCV 2026 **Learning from Primitive: Probing Visual Reasoning of LVLMs via Counting.**
Liwei Che, Zhiyu Xue, Yihao Quan, Benlin Liu, Zeru Shi, Ruixiang Tang, **Ranjay Krishna**, Vladimir Pavlovic
European Conference on Computer Vision, 2026
- ECCV 2026 **Molmo-Point: Better Pointing for VLMs with Grounding Tokens.**
Christopher Clark, Yue Yang, Jae Sung Park, Zixian Ma, Jieyu Zhang, Rohun Tripathi, Mohammadreza Salehi, Sangho Lee, **Ranjay Krishna**
European Conference on Computer Vision, 2026
- ECCV 2026 **Reward Modeling for Computer-Using Agent from Video Execution.**
Linxin Song, Jieyu Zhang, Huanxin Sheng, Taiwei Shi, Rahul Gupta, Yang Liu, **Ranjay Krishna**, Jian Kang, Jieyu Zhao
European Conference on Computer Vision, 2026
- ECCV 2026 **PerceptionComp: A Video Benchmark for Complex Perception-Centric Reasoning.**
Shaoxuan Li, Zhixuan Zhao, Hanze Deng, Zirun Ma, Shulin Tian, Zuyan Liu, Yushi Hu, Haoning Wu, Yuhao Dong, Benlin Liu, Ziwei Liu, **Ranjay Krishna**
European Conference on Computer Vision, 2026
- ECCV 2026 **When Rubrics Fail: Error Enumeration as Reward for Reference-Free RL Post-Training.**
Wisdom Oluchi Ikezogwo, Mehmet Saygin Seyfioglu, **Ranjay Krishna**, Karim Bouyarmane
European Conference on Computer Vision, 2026
- IROS 2026 **FailSafe: Reasoning and Recovery from Failures in Vision-Language-Action Models.**
Zijun Lin, Jiafei Duan, Haoquan Fang, Dieter Fox, **Ranjay Krishna**, Cheston Tan, Bihan Wen
IEEE International conference on Intelligent Robots and Systems, 2026
- CVPR 2026 **Molmo2: Open Weights and Data for Vision-Language Models with Video Understanding and Grounding.**
Christopher Clark, Jieyu Zhang, Zixian Ma, Jae Sung Park, Rohun Tripathi, Sangho Lee, Mohammadreza Salehi, Jason Ren, Chris Dongjoo Kim, YINUO Yang, Vincent Shao, Yue Yang, Weikai Huang, Ziqi Gao, Taira Anderson, Jianrui Zhang, Jitesh Jain, George Stoica, Ali Farhadi, **Ranjay Krishna**
IEEE conference on Computer Vision and Pattern Recognition, 2026
Oral Paper award (awarded to top 1.5% of submission)
- CVPR 2026 **VideoNet: A Large-Scale Dataset for Domain-Specific Action Recognition.**
Tanush Yadav, Mohammadreza Salehi, Jae Sung Park, Vivek Ramanujan, Hannaneh Hajishirzi, Yejin Choi, Ali Farhadi, Rohun Tripathi, **Ranjay Krishna**
IEEE conference on Computer Vision and Pattern Recognition, 2026
Highlight Paper award (awarded to top 5% of submission)
- CVPR 2026 **Agile Deliberation: Concept Deliberation for Subjective Visual Classification.**
Leijie Wang, Otilia Stretcu, Wei Qiao, Thomas Denby, Krishnamurthy Viswanathan, Enming Luo, Chun-Ta Lu, Tushar Dogra, **Ranjay Krishna**, Ariel Fuxman
IEEE conference on Computer Vision and Pattern Recognition, 2026
Highlight Paper award (awarded to top 5% of submission)
- CVPR 2026 **CapNav: Benchmarking Vision Language Models on Capability-conditioned Indoor Navigation.**
Xia Su, Ruiqi Chen, Benlin Liu, Jingwei Ma, Zonglin Di, **Ranjay Krishna**, Jon E. Froehlich
IEEE conference on Computer Vision and Pattern Recognition, 2026
- CVPR 2026 **OlmoEarth: Stable Latent Image Modeling for Multimodal Earth Observation.**
Henry Herzog, Favyen Bastani, Yawen Zhang, Gabriel Tseng, Joseph Redmon, Hadrien Sablon, Ryan Park, Jacob Morrison, Alexandra Buraczynski, Karen Farley, Joshua Hansen, Andrew Howe, Patrick Alan Johnson, Mark Otterlee, Ted Schmitt, Hunter Pitelka, Stephen Daspit, Rachel Ratner, Christopher Wilhelm, Sebastian Wood, Mike Jacobi, Hannah Kerner, Evan Shelhamer, Ali Farhadi, **Ranjay Krishna**, Patrick Beukema
IEEE conference on Computer Vision and Pattern Recognition, 2026

- CVPR 2026 **Synthetic Object Compositions for Scalable and Accurate Learning in Detection, Segmentation, and Grounding.**
Weikai Huang, Jieyu Zhang, Taoyang Jia, Chenhao Zheng, Ziqi Gao, Jae Sung Park, **Ranjay Krishna**
IEEE conference on Computer Vision and Pattern Recognition, 2026
- CVPR 2026 **TrajTok: Learning Trajectory Tokens enables better Video Understanding.**
Chenhao Zheng, Jieyu Zhang, Jianing Zhang, Weikai Huang, Ashutosh Kumar, Quan Kong, Oncel Tuzel, Chun-Liang Li, **Ranjay Krishna**
IEEE conference on Computer Vision and Pattern Recognition, 2026
- CVPR 2026 **Mull-Tokens: Modality-Agnostic Latent Thinking.**
Arijit Ray, Ahmed Abdelkader, Chengzhi Mao, Bryan A. Plummer, Kate Saenko, **Ranjay Krishna**, Leonidas Guibas, Wen-Sheng Chu
Findings at IEEE conference on Computer Vision and Pattern Recognition, 2026
- ICRA 2026 **MolmoAct: Action Reasoning Models that can Reason in Space.**
Jason Lee*, Jiafei Duan*, Haoquan Fang*, Yuquan Deng, Shuo Liu, Boyang Li, Bohan Fang, Jieyu Zhang, Yi Ru Wang, Sangho Lee, Winson Han, Wilbert Pumacay, Angelica Wu, Rose Hendrix, Karen Farley, Eli VanderBilt, Ali Farhadi, Dieter Fox, **Ranjay Krishna**
IEEE International Conference on Robotics, 2026
- ICRA 2026 **RoboEval: Where Robotic Manipulation Meets Structured and Scalable Evaluation.**
Yi Ru Wang, Carter Ung, Christopher Tan, Grant Tannert, Jiafei Duan, Josephine Li, Anh Le, Rishabh Oswal, Markus Grotz, Wilbert Pumacay, Yuquan Deng, **Ranjay Krishna**, Dieter Fox, Siddhartha Srinivasa
IEEE International Conference on Robotics, 2026
- ICRA 2026 **The One RING: a Robotic Indoor Navigation Generalist.**
Ainaz Eftekhari, Rose Hendrix, Luca Weihs, Jiafei Duan, Ege Caglar, Jordi Salvador, Alvaro Herrasti, Winson Han, Eli VanderBilt, Aniruddha Kembhavi, Ali Farhadi, **Ranjay Krishna**, Kiana Ehsani*, Kuo-Hao Zeng*
IEEE International Conference on Robotics, 2026
- ICLR 2026 **Unfolding Spatial Cognition: Evaluating Multimodal Models on Visual Simulations.**
Linjie Li, Mahtab Bigverdi, Jiawei Gu, Zixian Ma, Yinuo Yang, Ziang Li, Yejin Choi, **Ranjay Krishna**
International Conference on Learning Representations, 2026
- ICLR 2026 **Spatial Mental Modeling Capability from Limited Views.**
Qineng Wang, Baiqiao Yin, Pingyue Zhang, Jianshu Zhang, Kangrui Wang, Zihan Wang, Jieyu Zhang, Keshigeyan Chandrasegaran, Han Liu, **Ranjay Krishna**, Saining Xie, Manling Li, Jiajun Wu, Li Fei-Fei
International Conference on Learning Representations, 2026
- ICLR 2026 **Theory of Space: Can Foundation Models Construct Spatial Beliefs Through Active Perception?**
Pingyue Zhang, Zihan Huang, Yue Wang, Jieyu Zhang, Letian Xue, Zihan Wang, Qineng Wang, Keshigeyan Chandrasegaran, Ruohan Zhang, Yejin Choi, **Ranjay Krishna**, Jiajun Wu, Li Fei-Fei, Manling Li
International Conference on Learning Representations, 2026
- ICLR 2026 **AdaReasoner: Dynamic Tool Orchestration for Iterative Visual Reasoning.**
Mingyang Song, Haoyu Sun, Jiawei Gu, Linjie Li, **Ranjay Krishna**, Yu Cheng
International Conference on Learning Representations, 2026
- ICLR 2026 **Generate Any Scene: Scene Graph Driven Data Synthesis for Visual Generation Training.**
Ziqi Gao, Weikai Huang, Jieyu Zhang, Aniruddha Kembhavi, **Ranjay Krishna**
International Conference on Learning Representations, 2026

- ICLR 2026 **TrustGen: A Platform of Dynamic Benchmarking on the Trustworthiness of Generative Foundation Models.**
Yue Huang, Chujie Gao, Siyuan Wu, Haoran Wang, Xiangqi Wang, Yujun Zhou, Yanbo Wang, Jiayi Ye, Jiawen Shi, Qihui Zhang, Yuan Li, Han Bao, Zhaoyi Liu, Tianrui Guan, Dongping Chen, Ruoxi Chen, Kehan Guo, Andy Zou, Bryan Hooi Kuen-Yew, Caiming Xiong, Elias Stengel-Eskin, Hongyang Zhang, Hongzhi Yin, Huan Zhang, Huaxiu Yao, Jaehong Yoon, Jieyu Zhang, Kai Shu, Kaijie Zhu, **Ranjay Krishna**, Swabha Swayamdipta, Taiwei Shi, Weijia Shi, Xiang Li, Yiwei Li, Yuexing Hao, Zhihao Jia, Zhize Li, Xiuying Chen, Zhengzhong Tu, Xiyang Hu, Tianyi Zhou, Jieyu Zhao, Lichao Sun, Furong Huang, Or Cohen Sasson, Prasanna Sattigeri, Anka Reuel, Max Lamparth, Yue Zhao, Nouha Dziri, Yu Su, Huan Sun, Heng Ji, Chaowei Xiao, Mohit Bansal, Nitesh V. Chawla, Jian Pei, Jianfeng Gao, Michael Backes, Philip S. Yu, Neil Zhenqiang Gong, Pin-Yu Chen, Bo Li, Dawn Song, Xiangliang Zhang
International Conference on Learning Representations, 2026
- ICLR 2026 **ThinkMorph: Emergent Properties in Multimodal Interleaved Chain-of-Thought Reasoning.**
Jiawei Gu, Yunzhuo Hao, Huichen Will Wang, Linjie Li, Michael Qizhe Shieh, Yejin Choi, **Ranjay Krishna**, Yu Cheng
International Conference on Learning Representations, 2026
- AAAI 2026 **Towards Acyclic Preference Evaluation of Language Models via Multiple Evaluators.**
Zhengyu Hu, Jieyu Zhang, Zhihan Xiong, Alexander Ratner, Kaize Ding, **Ranjay Krishna**
Association for the Advancement of Artificial Intelligence, 2026
- TACL 2026 **Scale Doesn't Overcome Pragmatics: The Impact of Reporting Bias on Vision-Language Reasoning.**
Amita Kamath, Khyathi Chandu, Jena D. Hwang, Jack Hessel, Kai-Wei Chang, **Ranjay Krishna**
Advances in neural information processing systems, 2026
- IUI 2026 **RDoFlow: Automatically assessing under-specified statistical analyses in HCI.**
Madeleine Grunde-McLaughlin, Weixuan Liu, Ria Patil, Nino Migineishvili, Emily Reif, **Ranjay Krishna**, Daniel S. Weld, Jeffrey Heer
ACM Conference on Intelligent User Interfaces, 2026
- NeurIPS 2025 **Seeking and Updating with Live Visual Knowledge.**
Mingyang Fu, Yuyang Peng, Dongping Chen, Zetong Zhou, Benlin Liu, Yao Wan, Zhou Zhao, Philip S. Yu, **Ranjay Krishna**
Advances in neural information processing systems, 2025
- NeurIPS 2025 **Convergent Functions, Divergent Forms.**
Hyeonseong Jeon, Ainaz Eftekhari, Aaron Walsman, Kuo-Hao Zeng, Ali Farhadi, **Ranjay Krishna**
Advances in neural information processing systems, 2025
- NeurIPS 2025 **Reinforcing Visual State Reasoning for Multi-Turn VLM Agents.**
Kangrui Wang, Pingyue Zhang, Zihan Wang, Yaning Gao, Linjie Li, Qineng Wang, Hanyang Chen, Yiping Lu, Zhengyuan Yang, Lijuan Wang, **Ranjay Krishna**, Jiajun Wu, Li Fei-Fei, Yejin Choi, Manling Li
Advances in neural information processing systems, 2025
- EMNLP 2025 **LATTE: Learning to Think with Vision Specialists.**
Zixian Ma, Jianguo Zhang, Zhiwei Liu, Jieyu Zhang, Juntao Tan, Manli Shu, Juan Carlos Niebles, Shelby Heinecke, Huan Wang, Caiming Xiong, **Ranjay Krishna**, Silvio Savarese
Conference on Empirical Methods in Natural Language Processing, 2025
Oral Paper award (awarded to top 1.5% of submission)
- EMNLP 2025 **Wait, Do We Really Need to "Wait"? Towards Training-Free Efficient Reasoning in R1-style Models.**
Chenlong Wang, Yuanning Feng, Dongping Chen, Zhaoyang Chu, **Ranjay Krishna**, Tianyi Zhou
Conference on Empirical Methods in Natural Language Processing, 2025
- CoRL 2025 **GraspMolmo: Generalizable Task-Oriented Grasping via Large-Scale Synthetic Data Generation.**
Abhay Deshpande, Yuquan Deng, Arijit Ray, Jordi Salvador, Winson Han, Jiafei Duan, Kuo-Hao Zeng, Yuke Zhu, **Ranjay Krishna**, Rose Hendrix
Conference on Robot Learning, 2025

- CoRL 2025 **ManiFlow: A Dexterous Manipulation Policy using Flow Matching.**
Ge Yan, Jiyue Zhu, Yuquan Deng, Shiqi Yang, Ri-Zhao Qiu, Xuxin Cheng, Marius Memmel, **Ranjay Krishna**, Ankit Goyal, Xiaolong Wang, Dieter Fox
Conference on Robot Learning, 2025
- ACM-MM 2025 **MultiRef: Controllable Image Generation with Multiple Visual References.**
Ruoxi Chen, Dongping Chen, Siyuan Wu, Sinan Wang, Shiyun Lang, Petr Sushko, Gaoyang Jiang, Yao Wan, **Ranjay Krishna**
ACM MultiMedia, 2025
- CoLM 2025 **Visual Representations inside the Language Model.**
Benlin Liu, Amita Kamath, Madeleine Grunde-McLaughlin, Winson Han, **Ranjay Krishna**
Conference on Language Models, 2025
- CoLM 2025 **The Delta Learning Hypothesis: Preference Tuning on Weak Data can Yield Strong Gains.**
Scott Geng, Hamish Ivison, Chun-Liang Li, Maarten Sap, Jerry Li, **Ranjay Krishna**, Pang Wei Koh
Conference on Language Models, 2025
- CoLM 2025 **SAT: Spatial Aptitude Training for Multimodal Language Models.**
Arijit Ray, Jiafei Duan, Reuben Tan, Dina Bashkirova, Rose Hendrix, Kiana Ehsani, Aniruddha Kembhavi, Bryan A Plummer, **Ranjay Krishna**, Kuo-Hao Zeng, Kate Saenko
Conference on Language Models, 2025
- ICCV 2025 **One Trajectory, One Token: Grounded Video Tokenization via Panoptic Sub-object Trajectory.**
Chenhao Zheng, Jieyu Zhang, Mohammadreza Salehi, Ziqi Gao, Vishnu Iyengar, Norimasa Kobori, Quan Kong, **Ranjay Krishna**
IEEE International Conference on Computer Vision, 2025
Highlight Paper award (awarded to top 2.5% of submission)
- ICCV 2025 **Contrastive Flow Matching.**
George Stoica, Vivek Ramanujan*, Xiang Fan*, **Ranjay Krishna**, Judy Hoffman
IEEE International Conference on Computer Vision, 2025
- ICCV 2025 **PathFinder: A Multi-Modal Multi-Agent System for Medical Diagnostic Decision-Making Applied to Histopathology.**
Mehmet Saygin Seyfioglu*, Fatemeh Ghezloo*, Rustin Soraki*, Wisdom O. Ikezogwo*, Beibin Li*, Tejoram Vivekanandan, Joann G. Elmore, **Ranjay Krishna**, Linda Shapiro
IEEE International Conference on Computer Vision, 2025
- ACL 2025 **Scaling Text-Rich Image Understanding via Code-Guided Synthetic Multimodal Data Generation.**
Yue Yang, Ajay Patel, Matt Deitke, Tanmay Gupta, Luca Weihs, Andrew Head, Mark Yatskar, Chris Callison-Burch, **Ranjay Krishna**, Aniruddha Kembhavi, Christopher Clark
Association for Computational Linguistics Findings, 2025
- ICML 2025 **SAM2Act: Integrating Visual Foundation Model with A Memory Architecture for Robotic Manipulation.**
Haoquan Fang, Markus Grotz, Wilbert Pumacay, Yi Ru Wang, Dieter Fox, **Ranjay Krishna**, Jiafei Duan
International conference on Learning Representations, 2025
- CogSci 2025 **Improving Interpersonal Communication by Simulating Audiences with Language Models.**
Ryan Liu, Howard Yen, Raja Marjeh, Thomas L. Griffiths, **Ranjay Krishna**
Annual Meeting of the Cognitive Science Society, 2025
- FAccT 2025 **Unsettling the Hegemony of Intention: Agonistic Image Generation.**
Andre Ye, Andrew Shaw, **Ranjay Krishna**, Amy Zhang
ACM Conference on Fairness, Accountability, and Transparency, 2025
- CVPR 2025 **Perception Tokens Enhance Visual Reasoning in Multimodal Language Models.**
Mahtab Bigverdi, Zelun Luo, Cheng-Yu Hsieh, Ethan Shen, Dongping Chen, Linda G. Shapiro, **Ranjay Krishna**
IEEE conference on Computer Vision and Pattern Recognition, 2025

- CVPR 2025 **Synthetic Visual Genome.**
Jae Sung Park, Zixian Ma, Linjie Li, Chenhao Zheng, Cheng-Yu Hsieh, Ximing Lu, Khyathi Chandu, Quan Kong, Norimasa Kobori, Ali Farhadi, Yejin Choi, **Ranjay Krishna**
IEEE conference on Computer Vision and Pattern Recognition, 2025
- CVPR 2025 **Eval3D: Interpretable and Fine-grained Evaluation for 3D Generation.**
Shivam Duggal, Yushi Hu, Oscar Michel, Aniruddha Kembhavi, William T. Freeman, Noah A. Smith, **Ranjay Krishna**, Antonio Torralba, Ali Farhadi, Wei-Chiu Ma
IEEE conference on Computer Vision and Pattern Recognition, 2025
- CVPR 2025 **RealEdit: Reddit Edits As a Large-scale Empirical Dataset for Image Transformations.**
Petr Sushko, Ayana Bharadwaj, Zhi Yang Lim, Vasily Ilin, Ben Caffee, Dongping Chen, Mohammadreza Salehi, Cheng-Yu Hsieh, **Ranjay Krishna**
IEEE conference on Computer Vision and Pattern Recognition, 2025
- CVPR 2025 **NVILA: Efficient Frontier Visual Language Models.**
Zhijian Liu, Ligeng Zhu, Baifeng Shi, Zhuoyang Zhang, Yuming Lou, Shang Yang, Haocheng Xi, Shiyi Cao, Yuxian Gu, Dacheng Li, Xiuyu Li, Haotian Tang, Yunhao Fang, Yukang Chen, Cheng-Yu Hsieh, De-An Huang, An-Chieh Cheng, Jinyi Hu, Sifei Liu, **Ranjay Krishna**, Pavlo Molchanov, Jan Kautz, Hongxu Yin, Song Han, Yao Lu
IEEE conference on Computer Vision and Pattern Recognition, 2025
- CVPR 2025 **One Diffusion to Generate Them All.**
Duong H Le, Tuan Pham, Sangho Lee, Christopher Clark, Aniruddha Kembhavi, Stephan Mandt, **Ranjay Krishna**, Jiasen Lu
IEEE conference on Computer Vision and Pattern Recognition, 2025
- CVPR 2025 **Molmo and PixMo: Open Weights and Open Data for State-of-the-Art Multimodal Models.**
Matt Deitke, Christopher Clark, Sangho Lee, Rohun Tripathi, Yue Yang, Jae Sung Park, Mohammadreza Salehi, Niklas Muennighoff, Kyle Lo, Luca Soldaini, Jiasen Lu, Taira Anderson, Erin Bransom, Kiana Ehsani, Huong Ngo, YenSung Chen, Ajay Patel, Mark Yatskar, Chris Callison-Burch, Andrew Head, Rose Hendrix, Favyn Bastani, Eli VanderBilt, Nathan Lambert, Yvonne Chou, Arnavi Chheda, Jenna Sparks, Sam Skjonsberg, Michael Schmitz, Aaron Sarnat, Byron Bischoff, Pete Walsh, Chris Newell, Piper Wolters, Tanmay Gupta, Kuo-Hao Zeng, Jon Borchardt, Dirk Groeneveld, Jen Dumas, Crystal Nam, Sophie Lebrecht, Caitlin Wittliff, Carissa Schoenick, Oscar Michel, **Ranjay Krishna**, Luca Weihs, Noah A. Smith, Hannaneh Hajishirzi, Ross Girshick, Ali Farhadi, Aniruddha Kembhavi
IEEE conference on Computer Vision and Pattern Recognition, 2025
Oral Paper award (awarded to top 0.7% of submissions)
Best paper Honorable Mention (amongst top 6 papers amongst 13K submissions)
- CVPR 2025 **Coarse Correspondences Boost Spatial-Temporal Reasoning in Multimodal Language Model.**
Benlin Liu, Yiqin Wang, Yuhao Dong, Yongming Rao, Yansong Tang, Wei-Chiu Ma, **Ranjay Krishna**
IEEE conference on Computer Vision and Pattern Recognition, 2025
- CVPR 2025 **Cultural and Linguistic Diversity Improves Visual Representations.**
Andre Ye, Sebastin Santy, Jena D. Hwang, Amy X. Zhang, **Ranjay Krishna**
IEEE conference on Computer Vision and Pattern Recognition, 2025
- SIGMOD 2025 **Self-Enhancing Video Data Management System for Compositional Events with Large Language Models.**
Enhao Zhang, Nicole Sullivan, Brandon Haynes, **Ranjay Krishna**, Magdalena Balazinska
ACM Special Interest Group on Management of Data, 2025
- ICLR 2025 **Interleaved Scene Graph for Interleaved Text-and-Image Generation Assessment.**
Dongping Chen, Ruoxi Chen, Shu Pu, Zhaoyi Liu, Yanru Wu, Caixi Chen, Benlin Liu, Yue Huang, Yao Wan, Pan Zhou, **Ranjay Krishna**
International Conference on Machine Learning, 2025
- ICLR 2025 **AHA: A Vision-Language-Model for Detecting and Reasoning Over Failures in Robotic Manipulation.**
Jiafei Duan, Wilbert Pumacay, Nishanth Kumar, Yi Ru Wang, Shulin Tian, Wentao Yuan, **Ranjay Krishna**, Dieter Fox, Ajay Mandlekar, Yijie Guo
International Conference on Machine Learning, 2025

- NAACL 2025 **DreamSync: Aligning Text-to-Image Generation with Image Understanding Feedback.**
Jiao Sun, Deqing Fu, Yushi Hu, Su Wang, Royi Rassin, Da-Cheng Juan, Dana Alon, Charles Herrmann, Sjoerd van Steenkiste, **Ranjay Krishna**, Cyrus Rashtchian
Annual Conference of the Nations of the Americas Chapter of the Association for Computational Linguistics, 2025
- TOCHI 2025 **Designing LLM Chains by Adapting Techniques from Crowdsourcing Workflows.**
Madeleine Grunde-McLaughlin, Michelle S. Lam, **Ranjay Krishna**, Daniel S. Weld, Jeffrey Heer
ACM Transactions on Computer-Human Interaction
- NeurIPS 2024 **Task Me Anything.**
Jieyu Zhang, Weikai Huang, Zixian Ma, Oscar Michel, Dong He, Tanmay Gupta, Wei-Chiu Ma, Ali Farhadi, Aniruddha Kembhavi, **Ranjay Krishna**
Advances in neural information processing systems, 2024
- NeurIPS 2024 **Visual Sketchpad: Sketching as a Visual Chain of Thought for Multimodal Language Models.**
Yushi Hu*, Weijia Shi*, Xingyu Fu, Dan Roth, Mari Ostendorf, Luke Zettlemoyer, Noah A Smith*, **Ranjay Krishna***
Advances in neural information processing systems, 2024
- NeurIPS 2024 **Multilingual Diversity Improves Vision-Language Representations.**
Thao Nguyen, Matthew Wallingford, Sebastin Santy, Wei-Chiu Ma, Sewoong Oh, Ludwig Schmidt, Pang Wei Koh, **Ranjay Krishna***
Advances in neural information processing systems, 2024
Spotlight Paper award (awarded to top 5%)
- NeurIPS 2024 **The Unmet Promise of Synthetic Training Images: Using Retrieved Real Images Performs Better.**
Scott Geng, Cheng-Yu Hsieh, Vivek Ramanujan, Matthew Wallingford, Chun-Liang Li, Pang Wei Koh*, **Ranjay Krishna***
Advances in neural information processing systems, 2024
- NeurIPS 2024 **ActionAtlas: A VideoQA Benchmark for Fine-grained Action Recognition.**
Mohammadreza Salehi, Jae Sung Park, Aditya Kusupati, **Ranjay Krishna**, Yejin Choi, Hannaneh Hajishirzi, Ali Farhadi
Advances in neural information processing systems, 2024
- NeurIPS 2024 **NaturalBench: Evaluating Vision-Language Models on Natural Adversarial Samples.**
Wenxuan Peng, Baiqi Li, Zhiqiu Lin, Jean de Dieu Nyandwi, Zixian Ma, Simran Khanuja, Deva Ramanan, **Ranjay Krishna**, Graham Neubig
Advances in neural information processing systems, 2024
- NeurIPS 2024 **Superposed Decoding: Multiple Generations from a Single Autoregressive Inference Pass.**
Ethan Shen, Alan Fan, Sarah M Pratt, Jae Sung Park, Matthew Wallingford, Sham M Kakade, Ari Holtzman, **Ranjay Krishna**, Ali Farhadi, Aditya Kusupati
Advances in neural information processing systems, 2024
- EMNLP 2024 **Is C4 Dataset Enough for Pruning? An Investigation of Calibration Data for LLM Pruning.**
Abhinav Bandari, Lu Yin, Cheng-Yu Hsieh, Ajay Kumar Jaiwal, Tianlong Chen, Li Shen, Ranjay Krishna, Shiwei Liu
Conference on Empirical Methods in Natural Language Processing, 2024
- EMNLP 2024 **Lookback Lens: Detecting and Mitigating Contextual Hallucinations in Large Language Models Using Only Attention Maps.**
Yung-Sung Chuang, Linlu Qiu, Cheng-Yu Hsieh, **Ranjay Krishna**, Yoon Kim, James Glass
Conference on Empirical Methods in Natural Language Processing, 2024
- EMNLP 2024 **ImageInWords: Unlocking Hyper-Detailed Image Descriptions .**
Roopal Garg, Andrea Burns, Burcu Karagol Ayan, Yonatan Bitton, Ceslee Montgomery, Yasumasa Onoe, Andrew Bunner, **Ranjay Krishna**, Jason Baldridge, Radu Soricut
Conference on Empirical Methods in Natural Language Processing, 2024

- CoRL 2024 **Manipulate-Anything: Automating Real-World Robots using Vision-Language Models.**
Jiafei Duan, Wentao Yuan, Wilbert Pumacay, Yi Ru Wang, Kiana Ehsani, Dieter Fox, **Ranjay Krishna**
Conference on Robot Learning, 2024
- CoRL 2024 **RoboPoint: A Vision-Language Model for Spatial Affordance Prediction for Robotics.**
Wentao Yuan, Jiafei Duan, Valts Blukis, Wilbert Pumacay, **Ranjay Krishna**, Adithyavairavan Murali, Arsalan Mousavian, Dieter Fox
Conference on Robot Learning, 2024
- CoRL 2024 **I Can Tell What I am Doing: Toward Real-World Natural Language Grounding of Robot Experiences.**
Zihan Wang, Brian Liang, Varad Dhat, Nick Walker, Zander Brumbaugh, **Ranjay Krishna**, Maya Cakmak
Conference on Robot Learning, 2024
- UIST 2024 **EVE: Enabling Anyone to Train Robots using Augmented Reality.**
Jun Wang, Chun-Cheng Chang, Jiafei Duan, Dieter Fox, **Ranjay Krishna**
ACM Symposium on User Interface Software and Technology, 2024
- ECCV 2024 **m&m's: A Benchmark to Evaluate Tool-Use for multi-step multi-modal Tasks.**
Zixian Ma, Weikai Huang, Jieyu Zhang, Tanmay Gupta, **Ranjay Krishna**
European Conference on Computer Vision, 2024
- ECCV 2024 **Videoshop: Localized Semantic Video Editing with Noise-Extrapolated Diffusion Inversion.**
Xiang Fan, Anand Bhattad, **Ranjay Krishna**
European Conference on Computer Vision, 2024
- ECCV 2024 **The Hard Positive Truth about Vision-Language Compositionality .**
Amita Kamath, Cheng-Yu Hsieh, Kai-Wei Chang, **Ranjay Krishna**
European Conference on Computer Vision, 2024
- ECCV 2024 **Efficient Inference of Vision Instruction-Following Models with Elastic Cache.**
Zuyan Liu*, Benlin Liu*, Jiahui Wang, Yuhao Dong, Guangyi Chen, Jiwen Lu, **Ranjay Krishna**, Yongming Rao
European Conference on Computer Vision, 2024
- ECCV 2024 **BLINK: Multimodal Large Language Models Can See but Not Perceive .**
Xingyu Fu*, Yushi Hu*, Bangzheng Li, Yu Feng, Haoyu Wang, Xudong Lin, Dan Roth, Noah Smith, Wei-Chiu Ma, **Ranjay Krishna**
European Conference on Computer Vision, 2024
- ECCV 2024 **SPARO: Selective Attention Improves Recognition, Compositionality, and Robustness.**
Ankit Vani, Bac Nguyen, Samuel Lavoie-Marchildon, **Ranjay Krishna**, Aaron Courville
European Conference on Computer Vision, 2024
- ACL 2024 **Found in the Middle: Calibrating Positional Attention Bias Improves Long Context Utilization.**
Cheng-Yu Hsieh, Yung-Sung Chuang, Chun-Liang Li, Zifeng Wang, Long T Le, Abhishek Kumar, James Glass, Alexander Ratner, Chen-Yu Lee, **Ranjay Krishna***, Tomas Pfister*
Association for Computational Linguistics Findings, 2024
- RSS 2024 **The Colosseum: A Benchmark for Evaluating Generalization for Robotic Manipulation.**
Wilbert Pumacay*, Ishika Singh*, Jiafei Duan*, **Ranjay Krishna**, Jesse Thomason, Dieter Fox
Robotics: Science and Systems, 2024
- ICML 2024 **Training Language Model Agents without Modifying Language Models .**
Shaokun Zhang, Jieyu Zhang, Jiale Liu, Linxin Song, Chi Wang, **Ranjay Krishna**, Qingyun Wu
International Conference on Machine Learning, 2024
- CVPR 2024 **Iterated Learning Improves Compositionality in Large Vision-Language Models.**
Chenhao Zheng, Jieyu Zhang, Aniruddha Kembhavi, **Ranjay Krishna**
IEEE conference on Computer Vision and Pattern Recognition, 2024
- CVPR 2024 **Modeling Collaborator: Enabling Subjective Vision Classification With Minimal Human Effort via LLM Tool-Use.**
Imad Eddine Toubal, Aditya Avinash, Neil Gordon Alldrin, Jan Dlabal, Wenlei Zhou, Enming Luo, Otilia Stretcu, Hao Xiong, Chun-Ta Lu, Howard Zhou, **Ranjay Krishna**, Ariel Fuxman, Tom Duerig
IEEE conference on Computer Vision and Pattern Recognition, 2024

- CVPR 2024 **Holodeck: Language Guided Generation of 3D Embodied AI Environments.**
Yue Yang, Fan-Yun Sun, Luca Weihs, Eli VanderBilt, Alvaro Herrasti, Winson Han, Jiajun Wu, Nick Haber, **Ranjay Krishna**, Lingjie Liu, Chris Callison-Burch, Mark Yatskar, Aniruddha Kembhavi, Christopher Clark
IEEE conference on Computer Vision and Pattern Recognition, 2024
- CVPR 2024 **Quilt-LLaVA: Visual Instruction Tuning by Extracting Localized Narratives from Open-Source Histopathology Videos.**
Mehmet Saygin Seyfioglu, Wisdom O. Ikezogwo, Fatemeh Ghezloo, **Ranjay Krishna**, Linda Shapiro
IEEE conference on Computer Vision and Pattern Recognition, 2024
- CVPR 2024 **Imitating Shortest Paths in Simulation Enables Effective Navigation and Manipulation in the Real World.**
Kiana Ehsani, Tanmay Gupta, Rose Hendrix, Jordi Salvador, Luca Weihs, Kuo-Hao Zeng, Kunal Pratap Singh, Yejin Kim, Winson Han, Alvaro Herrasti, **Ranjay Krishna**, Dustin Schwenk, Eli VanderBilt, Aniruddha Kembhavi
IEEE conference on Computer Vision and Pattern Recognition, 2024
- CVPR 2024 **Visual Program Distillation: Distilling Tools and Programmatic Reasoning into Vision-Language Models.**
Yushi Hu, Otilia Stretcu, Chun-Ta Lu, Krishnamurthy Viswanathan, Kenji Hata, Enming Luo, **Ranjay Krishna**, Ariel Fuxman
IEEE conference on Computer Vision and Pattern Recognition, 2024
- ICLR 2024 **Selective Visual Representations Improve Convergence and Generalization for Embodied AI.**
Ainaz Eftekhari, Kuo-Hao Zeng, Jiafei Duan, Ali Farhadi, Ani Kembhavi, **Ranjay Krishna**
International Conference on Machine Learning, 2024
Spotlight Paper award
- ICLR 2024 **Davidsonian Scene Graph: Improving Reliability in Fine-grained Evaluation for Text-Image Generation.**
Jaemin Cho, Yushi Hu, Roopal Garg, Peter Anderson, **Ranjay Krishna**, Jason Baldridge, Mohit Bansal, Jordi Pont-Tuset, Su Wang
International Conference on Machine Learning, 2024
- WSDM 2024 **Scaling Up LLM Reviews for Google Ads Content Moderation.**
Wei Qiao, Tushar Dogra, Otilia Stretcu, Yu-Han Lyu, Tiantian Fang, Dongjin Kwon, Chun-Ta Lu, Enming Luo, Yuan Wang, Chih-Chun Chia, Ariel Fuxman, Fangzhou Wang, **Ranjay Krishna**, Mehmet Tek
ACM International Conference on Web Search and Data Mining, 2024
- VLDB 2024 **VOCALExplore: Pay-as-You-Go Video Data Exploration and Model Building.**
Maureem Daum, Enhao Zhang, Dong He, Brandon Hayes, **Ranjay Krishna**, Magdalena Balazinska
International Conference on Very Large Data Bases, 2024
- NeurIPS 2023 **SugarCrepe: Fixing Hackable Benchmarks for Vision-Language Compositionality.**
Cheng-Yu Hsieh, Jieyu Zhang, Zixian Ma, Aniruddha Kembhavi, **Ranjay Krishna**
Advances in neural information processing systems, 2023
- NeurIPS 2023 **OBJECT 3DIT: Language-guided 3D-aware Image Editing.**
Oscar Michel, Anand Bhattad, **Ranjay Krishna**, Tanmay Gupta, Aniruddha Kembhavi
Advances in neural information processing systems, 2023
- NeurIPS 2023 **Large Language Model as Attributed Training Data Generator: A Tale of Diversity and Bias.**
Yue Yu, Yuchen Zhuang, Jieyu Zhang, Yu Meng, Alexander Ratner, **Ranjay Krishna**, Jiaming Shen, Chao Zhang
Advances in neural information processing systems, 2023
- NeurIPS 2023 **Quilt-1M: One Million Image-Text Pairs for Histopathology .**
Wisdom Oluchi Ikezogwo, Mehmet Saygin Seyfioglu, Fatemeh Ghezloo, Dylan Stefan Chan Geva, Fatwir Sheikh Mohammed, Pavan Kumar Anand, **Ranjay Krishna**, Linda Shapiro
Advances in neural information processing systems, 2023
Oral Paper award

- NeurIPS 2023 **DataComp: In search of the next generation of multimodal datasets.**
 Samir Yitzhak Gadre, Gabriel Ilharco, Alex Fang, Jonathan Hayase, Georgios Smyrnis, Thao Nguyen, Ryan Marten, Mitchell Wortsman, Dhruva Ghosh, Jieyu Zhang, Eyal Orgad, Rahim Entezari, Giannis Daras, Sarah Pratt, Vivek Ramanujan, Yonatan Bitton, Kalyani Marathe, Stephen Mussmann, Richard Vencu, Mehdi Cherti, **Ranjay Krishna**, Pang Wei Koh, Olga Saukh, Alexander Ratner, Shuran Song, Hannaneh Hajishirzi, Ali Farhadi, Romain Beaumont, Sewoong Oh, Alex Dimakis, Jenia Jitsev, Yair Carmon, Vaishaal Shankar, Ludwig Schmidt
Advances in neural information processing systems, 2023
 Oral Paper award
- NeurIPS 2023 **Cola: How to adapt vision-language models to Compose Objects Localized with Attributes?.**
 Arijit Ray, Filip Radenovic, Abhimanyu Dubey, Bryan Plummer, **Ranjay Krishna**, Kate Saenko
Advances in neural information processing systems, 2023
- CoRL 2023 **AR2-D2: Training a Robot Without a Robot.**
 Jiafei Duan, Yi Ru Wang, Mohit Shridhar, Dieter Fox, **Ranjay Krishna**
Conference on Robot Learning, 2023
- ICCV 2023 **TIFA: Text-to-Image Faithfulness Evaluation with Question Answering.**
 Yushi Hu, Benlin Liu, Jungo Kasai, Yizhong Wang, Mari Ostendorf, **Ranjay Krishna**, Noah Smith
IEEE International Conference on Computer Vision, 2023
- ICCV 2023 **Agile Modeling: From Concept to Classifier in Minutes.**
 Otilia Stretcu, Edward Vendrow, Kenji Hata, Krishnamurthy Viswanathan, Vittorio Ferrari, Sasan Tavakkol, Wenlei Zhou, Aditya Avinash, Emming Luo, Neil Alldrin, MohammadHossein Bateni, Gabriel Berger, Andrew Bunner, Chun-Ta Lu, Javier Rey, Giulia DeSalvo, **Ranjay Krishna**, Ariel Fuxman
IEEE International Conference on Computer Vision, 2023
- VLDB 2023 **EQUI-VOCAL: Synthesizing Queries for Compositional Video Events from Limited User Interactions.**
 Enhao Zhang, Maureem Daum, Dong He, Brandon Hayes, **Ranjay Krishna**, Magdalena Balazinska
International Conference on Very Large Data Bases, 2023
- ACL 2023 **Distilling Step-by-Step! Outperforming Larger Language Models with Less Training Data and Smaller Model Sizes .**
 Cheng-Yu Hsieh, Chun-Liang Li, Chih-Kuan Yeh, Hootan Nakhost, Yasuhisa Fujii, Alex Jason Ratner, **Ranjay Krishna**, Chen-Yu Lee, and Tomas Pfister
Annual Meeting of the Association for Computational Linguistics (ACL) Findings, 2023
- CVPR 2023 **CREPE: Can Vision-Language Foundation Models Reason Compositionally? .**
 Zixian Ma*, Jerry Hong*, Mustafa Omer Gul*, Mona Gandhi, Irena Gao, **Ranjay Krishna**
IEEE conference on Computer Vision and Pattern Recognition, 2023
 Highlight Paper award (awarded to top 2.5% of submission)
- CSCW 2023 **Explanations Can Reduce Overreliance on AI Systems during Decision-Making.**
 Helena Vasconcelos, Matthew Joerke, Tobias Gerstenberg, Michael Bernstein, **Ranjay Krishna**
ACM Conference on Computer-Supported Cooperative Work and Social Computing, 2023
- NeurIPS 2022 **Alignment as a Multi-agent Intrinsic Reward.**
 Zixian Sunnie Ma, Rose Wang, Li Fei-Fei, Michael Bernstein, **Ranjay Krishna**
Advances in neural information processing systems, 2022
- PNAS 2022 **Learning to Interact and Interacting to Learn with Socially Situated Artificial Intelligence.**
Ranjay Krishna, Donsuk Lee, Li Fei-Fei, Michael S. Bernstein
Proceedings of the National Academy of Sciences of the United States of America, 2022
- CVPR 2022 **Measuring Compositional Consistency for Video Question Answering.**
 Mona Gandhi*, Mustafa Omer Gul*, Eva Prakash, Madeleine Grunde-McLaughlin, **Ranjay Krishna**, Maneesh Agrawala
IEEE conference on Computer Vision and Pattern Recognition, 2022

- CIDR 2022 **Interactive Video Data Cleaning and Exploration.**
Maureen Daum*, Enhao Zhang*, Dong He, Magdalena Balazinska, Brandon Haynes, **Ranjay Krishna**,
Apyrle Craig, Aaron Wirsing
Conference on Innovative Data Systems Research, 2021
- ACL 2021 **Mind Your Outliers! Investigating the Negative Impact of Outliers on Active Learning
through the Lens of Visual Question Answering.**
Siddharth Karamcheti, **Ranjay Krishna**, Fei-Fei, Chris Manning
Proceedings of the Annual Meeting of the Association for Computational Linguistics, 2021
Outstanding Paper award (awarded to top 0.2%)
- CVPR 2021 **AGQA: A Benchmark for Compositional Spatio-Temporal Reasoning.**
Madeleine Grunde-McLaughlin, **Ranjay Krishna**, Maneesh Agrawala
IEEE conference on Computer Vision and Pattern Recognition, 2021
- CSCW 2020 **Conceptual Metaphors Impact Perceptions of Human-AI Collaboration.**
Pranav Khadpe, **Ranjay Krishna**, Li Fei-Fei, Jeffrey Hancock, Michael Bernstein
ACM Conference on Computer-Supported Cooperative Work and Social Computing, 2020
Best Paper Honorable Mention award (awarded to top 2.2%)
- CVPR 2020 **Action Genome: Actions with Composable Spatio-temporal Scene Graphs.**
Jingwei Ji, **Ranjay Krishna**, Li Fei-Fei, Juan Carlos Nieves
IEEE conference on Computer Vision and Pattern Recognition, 2020
- HCOMP2019 **AI-based Request Augmentation to Increase Crowdsourcing Participation.**
Junwon Park, **Ranjay Krishna**, Pranav Khadpe, Li Fei-Fei, Michael S. Bernstein
AAAI Conference on Human Computation and Crowdsourcing, 2019
- NeurIPS 2019 **HYPE: Human eYe Perceptual Evaluation for Generative Models.**
Sharon Zhou*, Mitchell Gordon*, **Ranjay Krishna**, Austin Narcomey, Li Fei-Fei, Michael S. Bernstein
Advances in neural information processing systems, 2019
Oral paper (awarded to top 0.53%)
- ICCV 2019 **Scene Graph Prediction with Limited Labels.**
Vincent Chen, Paroma Varma, **Ranjay Krishna**, Michael S. Bernstein, Christopher Re, Li Fei-Fei
IEEE International Conference on Computer Vision, 2019
- ICCV 2019 **Visual Relationships as Functions: Enabling Few-Shot Learning.**
Apoorva Dornadula, Austin Narcomey, **Ranjay Krishna**, Michael S. Bernstein, Li Fei-Fei
IEEE International Conference on Computer Vision: Scene Graph Representation and Learning workshop, 2019
- CVPR 2019 **Information Maximizing Visual Question Generation.**
Ranjay Krishna, Michael Bernstein, Li Fei-Fei
IEEE conference on Computer Vision and Pattern Recognition, 2019
- CVPR 2018 **Referring Relationships.**
Ranjay Krishna*, Ines Chami*, Michael Bernstein, Li Fei-Fei
IEEE conference on Computer Vision and Pattern Recognition, 2018
- ICCV 2017 **Dense-Captioning Events in Videos.**
Ranjay Krishna, Kenji Hata, Frederic Ren, Li Fei-Fei, Juan Carlos Nieves
IEEE International Conference on Computer Vision, 2018
- UIST 2017 **Crowd Research: Open and Scalable University Laboratories.**
Rajan Vaish, Snehalkumar Gaikwad, Geza Kovacs, Andreas Veit, **Ranjay Krishna**, Imanol Arrieta Ibarra,
Camelia Simoiu, Michael Wilber, Serge Belongie, Sharad C. Goel, James Davis, Michael Bernstein
ACM conference on User Interface Software and Technology, 2017
Best Paper Honorable Mention Award
- CVPR 2017 **A Hierarchical Approach for Generating Descriptive Image Paragraphs.**
Jonathan Krause, Justin Johnson, **Ranjay Krishna**, Li Fei-Fei
IEEE conference on Computer Vision and Pattern Recognition, 2017
Spotlight paper (awarded to top 5%)
- CSCW 2017 **A Glimpse Far into the Future: Understanding Long-term Crowd Worker Accuracy.**
Kenji Hata, **Ranjay Krishna**, Li Fei-Fei, Michael Bernstein
ACM Conference on Computer-Supported Cooperative Work and Social Computing, 2017

- Stanford 2016 **Visual Genome: Crowdsourced Visual Knowledge Representations.**
Ranjay Krishna
 Christofer Stephenson Memorial Award for best Stanford CS Thesis, awarded to 1 student every year
- IJCV 2017 **Visual Genome: Connecting Language and Vision Using Crowdsourced Dense Image Annotations.**
Ranjay Krishna, Yuke Zhu, Oliver Groth, Justin Johnson, Kenji Hata, Joshua Kravitz, Stephanie Chen, Yannis Kalantidis, Li Jia-Li, David Ayman Shamma, Michael Bernstein, Li Fei-Fei
International Conference on Computer Vision, 2017
- ECCV 2016 **Visual Relationship Detection with Language Priors.**
 Cewu Lu*, **Ranjay Krishna***, Michael Bernstein, Li Fei-Fei
 indicates equal contribution
European Conference on Computer Vision, 2016
 Oral paper (awarded to top 1%)
- CHI 2016 **Embracing Error to Enable Rapid Crowdsourcing.**
Ranjay Krishna, Kenji Hata, Stephanie Chen, Joshua Kravitz, David Ayman Shamma, Li Fei-Fei, Michael Bernstein
ACM Conference on Human Computer Interaction, 2016
- UIST 2015 **DAEMO: A Self-Governed Crowdsourcing Marketplace.**
 Stanford Crowdsourcing Collective
ACM Conference on User Interface Software and Technology, 2015
- EMNLP 2015 **Generating Semantically Precise Scene Graphs from Textual Descriptions for Improved Image Retrieval.**
 Sebastian Schuster, **Ranjay Krishna**, Angel Chang, Li Fei-Fei and Christopher D. Manning
ACM conference on Empirical Methods in Natural Language Processing, Vision and Language Workshop, 2015
- CVPR 2015 **Image Retrieval using Scene Graphs.**
 Justin Johnson, **Ranjay Krishna**., Michael Stark, Li-Jia Li, David Ayman Shamma, Michael Bernstein, Li Fei-Fei
IEEE conference on Computer Vision and Pattern Recognition, 2015

NON-ARCHIVAL PUBLICATIONS

- ArXiv 2025 **ProVision: Programmatically Scaling Vision-centric Instruction Data for Multimodal Language Models.**
 Jieyu Zhang, Le Xue, Linxin Song, Jun Wang, Weikai Huang, Manli Shu, An Yan, Zixian Ma, Juan Carlos Niebles, Caiming Xiong, Zeyuan Chen, **Ranjay Krishna**, Ran Xu
- ArXiv 2025 **Negative Token Merging: Image-based Adversarial Feature Guidance.**
 Jaskirat Singh, Lindsey Li, Weijia Shi, **Ranjay Krishna**, Yejin Choi, Pang Wei Koh, Michael F Cohen, Stephen Gould, Liang Zheng, Luke Zettlemoyer
- ArXiv 2025 **Language Model Preference Evaluation with Multiple Weak Evaluators.**
 Zhengyu Hu, Jieyu Zhang, Zhihan Xiong, Alexander Ratner, Hui Xiong, **Ranjay Krishna**
- ArXiv 2024 **Graph-Based Captioning: Enhancing Visual Descriptions by Interconnecting Region Captions.**
 Yu-Guan Hsieh, Cheng-Yu Hsieh, Shih-Ying Yeh, Louis Béthune, Hadi Pour Ansari, Pavan Kumar Anasosalu Vasu, Chun-Liang Li, **Ranjay Krishna**, Oncel Tuzel, Marco Cuturi
- 2024 **Diffusion prior for few-shot dense prediction.**
 Benlin Liu, Luming Tang, Yongming Rao, Wei-Chiu Ma, **Ranjay Krishna**
- CVPR 2024 **MIMIC: Masked Image Modeling with Image Correspondences.**
 Kalyani Marathe*, Mahtab Bigverdi*, Nishat Khan, Tuhin Kundu, Aniruddha Kembhavi, Linda G. Shapiro, **Ranjay Krishna** *IEEE conference on Computer Vision and Pattern Recognition - Workshop for Learning 3D with Multi-View Supervision*

- ArXiv 2023 **Lasagna: Layered Score Distillation for Disentangled Object Relighting.**
Dina Bashkirova, Arijit Ray, Rupayan Mallick, Sarah Adel Bargal, Jianming Zhang, **Ranjay Krishna**, Kate Saenko
(in submission)
- ArXiv 2023 **EcoAssistant: Using LLM Assistant More Affordably and Accurately.**
Jieyu Zhang, **Ranjay Krishna**, Ahmed H. Awadallah, Chi Wang
(in submission)
- ArXiv 2023 **Tool Documentation Enables Zero-Shot Tool-Usage with Large Language Models.**
Cheng-Yu Hsieh, Si-An Chen, Chun-Liang Li, Yasuhisa Fujii, Alexander Ratner, Chen-Yu Lee, **Ranjay Krishna**, Tomas Pfister
- ArXiv 2023 **LeetPrompt: Leveraging Collective Human Intelligence to Study Large Language Models.**
Sebastin Santy, Ayana Bharadwaj, Sahith Dambekodi, Alex Albert, Cathy Yuan, **Ranjay Krishna**
- ArXiv 2021 **On the Opportunities and Risks of Foundation Models.**
Center for Foundation Models at Stanford
- EMNLP 2020 **Determining Question-Answer Plausibility in Crowdsourced Datasets Using Multi-Task Learning.**
Rachel Gardner, Maya Varma, Clare Zhu, **Ranjay Krishna**. *The Fourth Workshop on Noisy User-generated Text at The 2020 Conference on Empirical Methods in Natural Language Processing*
Oral paper (awarded to top 10%)
- UIST 2019 **Learning Social Strategies.**
Junwon Park, **Ranjay Krishna**, Li Fei-Fei, Michael S. Bernstein. *ACM Symposium on User Interface Software and Technology*, Late Breaking work.
- ArXiv 2019 **Deep Bayesian Active Learning for Multiple Correct Outputs.**
Khaled Jedoui, **Ranjay Krishna**, Michael S. Bernstein, Li Fei-Fei
- CHI 2019 **Eevee: Transforming Images by Bridging High-level Goals and Low-level Edit Operations.**
Michelle Lam, Gracie B. Young, Catherine Y. Xu, **Ranjay Krishna**, Michael Bernstein *ACM Conference on Human Computer Interaction, 2016*, Late-breaking work
- UIST 2018 **Engagement Learning: Generating AI Datasets by Engaging Online Participants.**
Ranjay Krishna*, Donsuk Lee*, Li Fei-Fei, Michael Bernstein *ACM User Interface Software and Technology Symposium, 2018*, Poster
- CVPR 2018 **The ActivityNet Large-Scale Activity Recognition Challenge 2018 Summary.**
Bernard Ghanem, Juan Carlos Niebles, Cees Snoek, Fabian Caba Heilbron, Humam Alwassel, Victor Escorcia, **Ranjay Krishna**, Shyamal Buch, Cuong Duc Dao *IEEE conference on Computer Vision and Pattern Recognition - The ActivityNet Large-scale Activity Recognition Challenge Workshop, 2018*
- CVPR 2017 **ActivityNet Challenge 2017 Summary.**
Bernard Ghanem, Juan Carlos Niebles, Cees Snoek, Fabian Caba Heilbron, Humam Alwassel, Victor Escorcia, **Ranjay Krishna**, Shyamal Buch, Cuong Duc Dao *IEEE conference on Computer Vision and Pattern Recognition - The ActivityNet Large-scale Activity Recognition Challenge Workshop, 2017*
- ArXiv 2015 **SentenceRacer: A Game with a Purpose for Image Sentence Annotation.**
Kenji Hata, Sherman Leung, **Ranjay Krishna**, Michael S. Bernstein, Li Fei-Fei

PH.D. ADVISING

CURRENT PH.D. STUDENTS

- 2026-present **Jiawei Gu**, *University of Washington*.
- 2026-present **Ziqi Gao**, *University of Washington*.
- 2026-present **Weikai Huang**, *University of Washington*.
- 2025-present **Arjun Guru**, *University of Washington*.
Co-advised with Ali Farhadi
Awards: NSF Graduate Fellowship

- 2024-present **Chenhao Zheng**, *University of Washington*.
Awards: **Meta Graduate Fellowship**
- 2024-present **Amita Kamath**, *University of Washington*.
Co-advised with Kai-Wei Chang
- 2024-present **Linjie Li**, *University of Washington*.
Co-advised with Yejin Choi
- 2024-present **George Stoica**, *University of Washington*.
Co-advised with Judy Hoffman
Awards: **NSF Graduate Fellowship**, **Google Ph.D. Fellowship**
- 2023-present **Xiang Fan**, *University of Washington*.
- 2023-present **Zixian Ma**, *University of Washington*.
Co-advised with Dan Weld
Awards: **Qualcomm Innovation Ph.D. Fellowship**, **Two Sigma Ph.D. Fellowship**
- 2023-present **Benlin Liu**, *University of Washington*.
- 2022-present **Mahtab Bigverdi**, *University of Washington*.
Co-advised with Linda Shapiro
- 2021-present **Wisdom Ikezogwo**, *University of Washington*.
Co-advised with Linda Shapiro
- 2022-present **Ainaz Eftekhari**, *University of Washington*.
Co-advised with Ali Farhadi
Awards: **Amazon PhD Fellowship**

GRADUATED PH.D. STUDENTS

- 2022-2026 **Jiafei Duan**, *University of Washington*.
Awards: **Singapore's National Science Scholarship**
Placement: Assistant Professor at National University of Singapore
- 2022-2026 **Jieyu Zhang**, *University of Washington*.
Awards: **Apple PhD Fellowship**, **OpenAI PhD Fellowship**, **MLCommons Rising Stars Fellowship**
Placement: Member of Technical Staff, Microsoft SuperIntelligence
- 2022-2026 **Jae 'James' Sung Park**, *University of Washington*.
Placement: Research Scientist at Allen AI
- 2023-2025 **M. Saygin Seyfioglu**, *University of Washington*.
Awards: **Fullbright Scholar**
Placement: Amazon Research Scientist
- 2021-2025 **Cheng-Yu Hsieh**, *University of Washington*.
Awards: **Google PhD Fellowship**, **Taiwan Government Scholarship**
Placement: Research Scientist at Apple

POSTDOCS

CURRENT POSTDOCS

- 2025-present **Max Argus**, *Allen Institute for AI*.

PAST POSTDOCS

- 2025-2026 **Jaemin Cho**, *University of Washington*.
Placement: Assistant Professor at Johns Hopkins University
- 2025-2026 **Jason Ren**, *University of Washington*.
Placement: Assistant Professor at University of North Carolina Chapel Hill
- 2023-2024 **Wei-Chiu Ma**, *University of Washington*.
Placement: Assistant Professor at Cornell University

MENTORSHIP

CURRENT PH.D. MENTEES

- 2022-present **Brigit Leonard**, *University of Washington*.
With Scott O. Murray
- 2022-present **Madeleine Grunde-McLaughlin**, *University of Washington*.
With Jeff Heer and Dan Weld
- 2022-present **Arijit Ray**, *Boston University*.
With Kate Saenko and Bryan Plummer
- 2022-present **Enhao Zhang**, *University of Washington*.
With Magdalena Balazinska
- 2023-present **Qijia He**, *University of Washington*.
with Bo Zhang

CURRENT UNDERGRADUATE STUDENTS

- 2025-present **Shuo Liu**, *University of Washington*.
- 2025-present **Jianing Zhang**, *University of Washington*.
2024-2025 **Andrew Shaw**, *University of Washington*.
Placement: Cornell University Ph.D.
- 2023-present **Yinuo Yang**, *University of Washington*.
- 2024-present **Jianing Zhang**, *University of Washington*.
- 2024-present **Madeline Brumley**, *University of Washington*.
- 2023-present **Ayana Bharadwaj**, *University of Washington*.

PAST PH.D. MENTEES

- 2023-2025 **Yushi Hu**, *University of Washington*.
With Noah Smith
Placement: Meta Research Scientist
- 2022-2024 **Dong He**.
with Magdalena Balazinska
Placement: Research Scientist at Meta
- 2022-2024 **Ankit Vani**, *University of Montreal*.
with Aaron Courville
Placement: Machine Learning Researcher at Borealis AI
- 2023-2024 **Ryan Liu**, *Princeton University*.
Placement: Continued CS Ph.D. with Tom Griffiths
- 2020-2021 **Madeleine Grunde-McLaughlin**, *University of Washington*.
with Dan Weld and Jeffrey Heer
Placement: Continued CS Ph.D.
- 2020-2021 **Anelise Newman**, *Stanford University*.
with Fei-Fei Li
Placement: Continued CS Ph.D.
- 2020-2021 **Siddharth Karamcheti**, *Stanford University*.
with Christopher Manning
Placement: Continued CS Ph.D.
- 2019-2020 **Jingwei Ji**, *Stanford University*.
with Juan Carlos Niebles
Placement: Continued CS Ph.D.

PAST MASTERS STUDENTS

- 2025-2026 **Jason Lee**, *University of Washington*.
Placement: Stanford University Ph.D. with Jeannette Bohg
- 2023-2025 **Dylan Bunarto**, *University of Washington*.
Placement: Software Engineer, Microsoft
- 2023-2025 **Jun Wang**, *University of Washington*.
Placement: Software Engineer, Google
- 2024-2025 **Dongping Chen**, *University of Washington*.
Placement: CS Ph.D. at University of Maryland with Tianyi Zhou and Sarah Wiegrefe
- 2022-2024 **Kalyani Marathe**, *University of Washington*.
With Luke Zettlemoyer Placement: CS Ph.D. at University of Washington
- 2022-2023 **Oscar Michel**, *Allen Institute of AI*.
Placement: CS Ph.D. at New York University with Saining Xie
- 2022-2023 **Kunal Pratap Singh**, *Allen Institute of AI*.
Placement: CS Ph.D. at EPFL with Amir Zamir
- 2019-2020 **Shubhang Desai**, *Stanford University*.
Placement: Applied ML Scientist at Microsoft
- 2018-2020 **Pranav Khadpe**, *Stanford University*.
Placement: CS Ph.D. at Carnegie Mellon University co-advised by Chinmay Kulkarni and Geoff Kaufman
- 2017-2019 **Junwon Park**, *Stanford University*.
Placement: Program Manager at Microsoft
- 2017-2019 **Apoorva Dornadula**, *Stanford University*.
Placement: Co-founder of Viralspace.ai startup
- 2017-2019 **Vincent Chen**, *Stanford University*.
Placement: Co-founder of Snorkel.ai startup
- 2016-2018 **Donsuk Lee**, *Stanford University*.
Placement: CS Ph.D. at University of Southern California advised by Yan Liu
- 2016-2018 **Ines Chami**, *Stanford University*.
Placement: CS Ph.D. at Stanford University advised by Christopher Re
- 2017-2017 **Mohana Moorthy**, *Stanford University*.
Placement: Autonomy Engineer at Uber
- 2015-2017 **Kenji Hata**, *Stanford University*.
Placement: CS Ph.D. at Princeton University advised by Olga Russakovsky
- 2016-2016 **Vincent Sitzmann**, *Stanford University*.
Placement: EE Ph.D. at Stanford University advised by Gordon Wetzstein
- 2015-2016 **Oliver Groth**, *Stanford University*.
Placement: CS Ph.D. at Oxford University advised by Andrea Vedaldi
- 2016-2017 **Frederic Ren**, *Stanford University*.
Placement: Software Engineer at Visa
- 2016-2016 **Yutian Li**, *Stanford University*.
Placement: Software Engineer at Conscripton

PAST UNDERGRADUATE STUDENTS

- 2024-2026 **Haoquan Fang**, *University of Washington*.
Placement: Stanford University Ph.D. with Fei-Fei Li
- 2024-2026 **Weikai Huang**, *University of Washington*.
Placement: University of Washington Ph.D. with me

2024-2026 **Tanush Yadav**, *University of Washington*.
Placement: University of Washington Ph.D. with Ali Farhadi

2024-2025 **Peter Sushko**, *University of Washington*.
Placement: Pre-doctoral Young Investigator at Allen Institute for AI

2024-2025 **Ziqi Gao**, *University of Washington*.
Placement: Pre-doctoral Young Investigator at Allen Institute for AI

2023-2025 **Abhinav Bandari**, *University of Washington*.
Placement: Master's at University of Texas at Austin

2023-2025 **Ben Caffè**, *University of Washington*.
Placement: Research Engineer at Sieve Data

2023-2025 **Andre Ye**, *University of Washington*.
Placement: MIT Ph.D. program with Mitchell Gordon

2020-2025 **Helena Vasconcelos**, *Stanford University*.
Co-advised with Michael Bernstein Placement: Harvard Ph.D. program with Krzysztof Gajos, Fernanda Viégas, and Martin Wattenberg

2023-2023 **Mayank Kumar**.
Placement: Machine Learning Engineer at Owl Autonomous Imaging

2022-2023 **Mona Gandhi**.
Placement: CS Ph.D. at Ohio State University with Srinivasan Parthasathy & Eric Fosler-Lussier

2023-2024 **Chenhao Zheng**.
Placement: CS Ph.D. at University of Washington with me

2020-2023 **Zixian Ma**.
Placement: CS Ph.D. at University of Washington with me

2018-2022 **Omer Gul**.
Placement: CS Ph.D. at Cornell University with Yoav Artzi

2021-2022 **Mona Gandhi**.
Placement: CS M.Sc. at University of Pennsylvania

2021-2022 **Jerry Hong**.
Placement: Product Designer at Airtable

2020-2021 **Madeleine Grunde-McLaughlin**.
Placement: CS Ph.D. at University of Washington

2020-2021 **Kimberly Te**.
Placement: Business Analyst at McKinsey & Company

2017-2021 **Austin Narcomey**.
Placement: CS Ph.D. at Yale University

2018-2021 **Khaled Jedoui**.
Placement: CS Ph.D. at Stanford University

2017-2019 **Michelle Lam**.
Placement: CS Ph.D. at Stanford University

2016-2019 **Sho Arora**.
Placement: Machine Learning Engineer at Marcari

2017-2018 **Jihyeon Janel Lee**.
Placement: CS M.Sc. at Stanford University

2018-2018 **Daniel Cai**.
Placement: Software Engineer at Zoox

2018-2018 **Buck Bukaty**, *Stanford University*.
Placement: Continued undergraduate CS

- 2016-2016 **Gavin Mai**, *Stanford University*.
Placement: Continued undergraduate CS
- 2015-2015 **Joshua Kravitz**, *Stanford University*.
Placement: Continued undergraduate CS
- 2015-2015 **Stephanie Chen**, *Stanford University*.
Placement: Continued undergraduate CS
- 2015-2015 **Sherman Leung**.
Placement: CS M.Sc. at Stanford University

PRESS

- 2026 **AIWire People to Watch.**
 - Alwire - "People to watch in AI?"
- 2025 **World Models.**
 - Tech Brew - "Why is everyone in AI talking about world models?"
- 2025 **Molmo2.**
 - Geekwire - "Allen Institute for AI rivals Google, Meta and OpenAI with open-source AI vision model"
 - Business Wire - "Ai2 Releases Molmo 2: State-of-the-Art Open Multimodal Family for Video and Multi-Image Understanding"
 - VentureBeat - "Ai2s Molmo 2 shows open-source models can rival proprietary giants in video understanding"
- 2025 **OlmoEarth.**
 - Business Insider - "Ai2 Launches OlmoEarth: State of the Art Foundation Models and Open Infrastructure to Tackle the Planet's Biggest Problems"
 - Fast Company - "Paul Allens AI nonprofit unveils satellite data platform"
 - World Conservation Congress - "OlmoEarth launch - using AI to protect the planet"
 - Geekwire - "Ai2 loosens Big Techs grip on Earth insights with open-source AI models for climate and conservation"
- 2025 **MIT Tech Review 35 Under 35 Asia Pacific.**
 - University of Washington - "Allen School faculty and alum recognized in MIT Technology Reviews Innovators Under 35 Asia Pacific"
 - MIT Technology Review China - "Release the List of MIT Technology Review Innovators Under 35 Asia Pacific 2025"
 - MIT Asia - "The List of MIT Technology Review Innovators Under 35 Asia Pacific 2025"
- 2025 **MolmoAct: An Action Reasoning Model that reasons in 3D space.**
 - Business Wire - "Ai2 Unveils MolmoAct, a New Class of AI Model That Reasons in 3D Space"
 - The AI Economy - "Ai2 Bets on MolmoAct to Help Robots Navigate the Real World"
 - Geekwire - "Ai2 unveils MolmoAct: Open-source robotics system reasons in 3D and adjusts on the fly"
 - Emergent Mind - "MolmoAct: Robotic Action Reasoning Model"
 - RealSense - "Chris Matthieu Interviews the Team Behind MolmoAct (Physical AI)"
 - Yahoo! Finance - "Ai2 Unveils MolmoAct, a New Class of AI Model That Reasons in 3D Space"
 - Venture Beat - "Ai2's MolmoAct model 'thinks in 3D' to challenge Nvidia and Google in robotics AI"
- 2025 **ProVision: Programmatically Scaling Vision-centric Instruction Data for Multimodal Language Models.**
 - Venture Beat - "Breaking the data bottleneck: Salesforces ProVision speeds multimodal AI training with image scene graphs"
 - Venture Beat - "Breaking the data bottleneck: Salesforces ProVision speeds multimodal AI training with image scene graphs"
- 2025 **TACO: Learning Multi-modal Action Models with Synthetic Chains-of-Thought-and-Action.**
 - MarketTech Post - "TACO: A New Family of Multimodal Action Models that Combine Reasoning with Real-World Actions to Solve Complex Visual Tasks"
 - SalesForce AI - "Introducing TACO Salesforce AI Researchs Family of Multimodal Action Models"

- 2024 **Molmo and PixMo: Open Weights and Open Data for State-of-the-Art Vision-Language Models.**
- o Business Insider - "Introducing Molmo: A Family of State-of-the-Art Open Multimodal Models"
 - o TechCrunch - "Ai2s Molmo shows open source can meet, and beat, closed multimodal models"
 - o DeepLearning.AI The Batch - "Molmos impressive open multimodal models"
- 2024 **AR2-D2: Training a Robot Without a Robot.**
- o Technology Review - "The Robot Race is Fueling a Fight for Training Data"
- 2024 **Holodeck: Creating 3D simulated spaces with diverse 3D object assets.**
- o Interesting Engineering - "A real Holodeck? Scientists recreate Star Trek technology with ChatGPT"
 - o TechTimes - "Engineers Use ChatGPT, Video Game Assets to Recreate Star Trek's Holodeck"
 - o TechXplore - "Engineers recreate Star Trek's Holodeck using ChatGPT and video game assets"
- 2024 **Revolutionizing Content Moderation in Digital Advertising: A Scalable LLM Approach.**
- o Matketpost - "Scaling Up LLM Reviews for Google Ads Content Moderation"
- 2022 **Tech that analyzes videos wins top prize at University of Washington computer science showcase.**
- o Geekwire - "VOCAL: Video Organization and Interactive AnaLytics"
- 2022 **Is this a deer I see? Socially aware AI adapts by asking questions of humans.**
- o Techxplore - "Socially situated AI"
- 2022 **When AI asks dumb questions, it gets smart fast.**
- o Science - "Socially situated AI"
- 2021 **Consumers Like Chatbots to Be Smartbut Not Too Smart.**
- o Wall Street Journal - "Scene Graphs"
- 2020 **Three ways Computer Vision is transforming marketing.**
- o Forbes - "Ranjay Krishna"
- 2018 **Engaging in Conversations to train AI systems.**
- o Stanford University - "Ranjay Krishna"
- 2018 **NOVA Wonders: Can we build a brain - Documentary.**
- o PBS - "Ranjay Krishna"
- 2016 **Brown Institute of Media Innovation.**
- o Columbia University - "Ranjay Krishna"
- 2016 **Visual Relationship Detection with Language Priors.**
- o RspVision - "Ranjay Krishna" [video]
- 2013 **Sign Language Translation.**
- o YouTube - "Sign Language Translator - The Sound of Signing"
 - o Enggaget - "Sign language translator turns gestures into spoken letters, makes for a better world"
 - o Slashgear - "Sign Language Translator glove interprets gestures "
 - o Economic Times of India - "power glove that translates sign language into spoken words"
 - o The Tech Journal - "Sign language translator turns gestures into spoken letters"
 - o Amrully - "Sign language translator turns gestures into spoken letters"
 - o ZDNet - "Sign language translator turns gestures into spoken letters"