

Kshitish Ghatе

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Paul G. Allen School of Computer Science and Engineering
University of Washington
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◆ RESEARCH INTERESTS

- Interactive evaluation and improvement of AI agents’ social reasoning capabilities.
- Aligning models to diverse principles and values in human-agent/multi-agent interactions.

◆ EDUCATION

- 2025 – Present **University of Washington, Seattle, WA**
PH.D. IN COMPUTER SCIENCE & ENGINEERING
Advisors: Aylin Caliskan, Tadayoshi Kohno
Relevant Coursework: Social Reinforcement Learning, Graduate Security and Privacy Seminar
- 2023 – 2025 **Carnegie Mellon University, Pittsburgh, PA**
MASTERS IN LANGUAGE TECHNOLOGIES
Advisor: Mona Diab
Cumulative GPA: 4.0/4.0
Relevant Coursework: Advanced NLP, Introduction to Machine Learning (graduate level), Multi-modal ML, On-Device ML, LLM Applications, Question Answering
- 2018 – 2023 **Birla Institute of Technology and Science, Pilani, Goa, India**
BACHELOR OF ENGINEERING IN COMPUTER SCIENCE AND MASTER OF SCIENCE IN ECONOMICS
Cumulative GPA: 9.0/10.0
Relevant Coursework: Artificial Intelligence, Data Structures and Algorithms, Database Management Systems, Operating Systems, Foundations of Data Science, Game Theory, Machine Learning, Object Oriented Programming, Probability and Statistics

◆ SKILLS

- Languages PYTHON, R, STATA, C/C++, MATLAB, JAVA, SQL
Toolkits/Cloud PYTORCH, HF TRANSFORMERS, PANDAS, NUMPY, vLLM, GCP, AWS, AZURE, WANDB, DOCKER, SLURM

◆ PUBLICATIONS

— Preprints & Manuscripts —

- (2025) **Kshitish Ghatе**, Andy Liu, Devansh Jain, Taylor Sorensen, Atoosa Kasirzadeh, Aylin Caliskan, Mona T. Diab, Maarten Sap. “EVALUESTEER: Measuring Reward Model Steerability Towards Values and Preferences.”
- (2025) Andy Liu, **Kshitish Ghatе**, Mona Diab, Daniel Fried, Atoosa Kasirzadeh, and Max Kleiman-Weiner. “Generative Value Conflicts Reveal LLM Priorities.”

— Select Conference and Journal Publications —

- 2025 **Kshitish Ghatе**, Tessa Charlesworth, Mona T. Diab, and Aylin Caliskan. “Biases Propagate in Encoder-based Vision-Language Models: A Systematic Analysis From Intrinsic Measures to Zero-shot Retrieval Outcomes.” *Findings of the Association for Computational Linguistics*, 2025.

- 2025 Jingwen Cheng, **Kshitish Ghate**, Wenyue Hua, William Yang Wang, Hong Shen, and Fei Fang. "REALM: A Dataset of Real-World LLM Use Cases." *Findings of the Association for Computational Linguistics*, 2025.
- 2025 **Kshitish Ghate***, Isaac Slaughter*, Kyra Wilson, Mona Diab, and Aylin Caliskan. "Intrinsic Bias is Predicted by Pretraining Data and Correlates with Downstream Performance in Vision-Language Encoders." *Nations of the Americas Chapter of the Association for Computational Linguistics*, 2025.
- 2024 Tessa Charlesworth, **Kshitish Ghate**, Aylin Caliskan, and Mahzarin R. Banaji. "Extracting intersectional stereotypes from embeddings: Developing and validating the Flexible Intersectional Stereotype Extraction procedure." *PNAS Nexus*, 2024.

◇ EXPERIENCE

- 09/25 – Present **University of Washington**, Seattle, WA
GRADUATE RESEARCH ASSISTANT, Paul G. Allen School of Computer Science and Engineering
Advisors: Aylin Caliskan, Tadayoshi Kohno
- Leading development of ecologically grounded, multi-turn adaptive benchmarks to evaluate and align multi-LLM agents; designing neuro-symbolic and reinforcement learning methods to train LLMs to reason in user-agent and multi-agent settings.
- 09/23 – 08/25 **Carnegie Mellon University**, Pittsburgh, PA
GRADUATE RESEARCH ASSISTANT, Language Technologies Institute
Advisors: Mona Diab, Maarten Sap
- Developed EVALUESTEER, a controlled synthetic benchmark evaluating LLM and reward-model (RM) steerability to user values and styles, revealing a >25-point steerability gap in RMs.
 - Created CONFLICTSCOPE, an fully-automated evaluation pipeline generating 1K+ value-conflict scenarios, and improving alignment consistency under conflict by 14% through prompt steering.
 - Investigated the relationship between intrinsic biases in 131 CLIP models, their pretraining factors and demonstrated the propagation of representation biases to downstream retrieval tasks.
 - Devised a harm reduction framework for reducing hallucinations and improving accuracy in LLM responses used for clinical decision-making through counterfactual synthetic data generation.
 - Introduced a risk taxonomy for Personal Information memorization in LLMs and improved existing detectors with 90% better FPR.
- 08/22 – 12/22 **Amazon**, Bangalore, India
APPLIED SCIENTIST INTERN, Alexa – AI Natural Language Understanding
Supervisors: Anurag Dwarakanath, Anjali Shenoy
- Implemented a novel training methodology and model architecture, drawing from Curriculum Learning literature, to address problem of classifying long tail data in NLU tasks.
 - Achieved 5% improvement in F1 score and Intent Classification accuracy by applying a holistic sample difficulty metric in training.

◇ TEACHING

- Fall 2024 LARGE LANGUAGE MODELS: METHODS AND APPLICATIONS (11-667), Teaching Assistant, CMU
- Spring 2022 APPLIED ECONOMETRICS, Teaching Assistant, BITS Pilani

◇ HONORS & AWARDS

- 2018 - 2023 NATIONAL TALENT SEARCH EXAMINATION (NTSE) SCHOLARSHIP, NCERT