

Kyle A. Moore

moore.kyle.andrew@gmail.com | kyle.a.moore@vanderbilt.edu | 901-734-6720
GitHub: [KyleAMoore](#) | LinkedIn: [kyle-andrew-moore](#) | Website: www.kyleamoore.github.io

RESEARCH INTERESTS

Artificial Intelligence & Machine Learning · Natural Language Processing · Large Language Models · AI Behavior & Human-AI Comparison · Human-AI Interaction (future direction) · Affective Computing (future direction)

EDUCATION

Ph.D., Computer Science – Vanderbilt University *Aug 2019 – Aug 2026 (expected)*

Advisors: Douglas Fisher, Meiyi Ma

Dissertation: "Human-Analogous Uncertainty Behavior: Cognitive Studies of Large Language Models"

M.S., Computer Science – University of Mississippi *Aug 2017 – May 2019*

Thesis: "Building an Automated QA System Using Online Forums as Knowledge Bases"

B.S., Computer Science – University of Mississippi *Aug 2013 – May 2017*

PUBLICATIONS

Peer-Reviewed

- Moore, K., Roberts, J., Watson, D., Wisniewski, P. "Investigating Human-Aligned Large Language Model Uncertainty." FLAIRS 2026.
- Sawyer, H., Roberts, J., Moore, K. "Basic Categories in Vision Language Models: Expert Prompting Doesn't Grant Expertise." ACS 2025.
- Moore, K., Roberts, J., Pham, T., Fisher, D. "Chain of Thought Still Thinks Fast: APriCoT Helps with Thinking Slow." CogSci 47, 2025.
- Moore, K., Roberts, J., Pham, T., Ewaleifoh, O., Fisher, D. "The Base-Rate Effect on LLM Benchmark Performance: Disambiguating Test-Taking Strategies from Benchmark Performance." EMNLP 2024.
- Roberts, J., Moore, K., Fisher, D., Ewaleifoh, O., Pham, T. "Large Language Model Recall Uncertainty is Modulated by the Fan Effect." CoNLL 28, 2024.
- Roberts, J., Moore, K., Wilenzick, D., Fisher, D. "Using Artificial Populations to Study Psychological Phenomena in Neural Models." AAAI 38, 2024.
- Timalsina, U., Broll, B., Moore, K., Lédeczi, Á. "DeepForge for Astronomy: Deep Learning SDSS Redshifts from Images." Astronomy and Computing 40 (2022).

Workshop Papers

- Roberts, J., Moore, K., Fisher, D. "Do Large Language Models Learn Human-Like Strategic Preferences?" REALM Workshop, ACL 2025.

Preprints / Under Review

- Moore, K., Roberts, J., Watson, D., Ward, W., Heyboer, G. "Human-Alignment, Calibration, and Activation Patterns in Large Language Model Uncertainty." Preprint, under review, 2026.

RESEARCH EXPERIENCE

Graduate Research Assistant – Vanderbilt University *Aug 2019 – Aug 2026*

- Investigated whether and how large language models exhibit human-analogous patterns of uncertainty, drawing on cognitive science methodology to design controlled behavioral studies.
- Studied test-taking artifacts and base-rate effects that confound benchmark-based evaluation of LLM capability.
- Analyzed calibration and internal activation patterns underlying LLM uncertainty and their alignment with human judgment.
- Extended artificial-population methodology to study psychological phenomena (e.g., strategic preference, categorization) in neural language models.

AWARDS & HONORS

IBM Goldstine Fellowship

2019 – 2022

TEACHING EXPERIENCE

Instructor of Record (de facto)

Introduction to Artificial Intelligence (CS 4260) – Vanderbilt University

Spring 2025

- Sole instructor, lecturer, and designer of all course materials for a class of ~60 students; administratively listed under faculty advisor (Doug Fisher) as instructor of record due to administrative technicality. Further details available upon request.

Teaching Assistantships – Ph.D. (- guest lectures given)*

- CS 4260 - Artificial Intelligence (2022F, 2023F, 2024S*, 2025F*, 2026S*)
- CS 1151 - Computer Ethics (Summer 2023, Summer 2024, Summer 2025)
- CS 3252 - Theory of Automata, Formal Languages, and Computation (2021F, 2023S*, 2024F*)
- CS 3265 - Databases (Summer 2022, Summer 2023)
- CS 3891 - Computational Creativity (2023S*)
- CS 3892 - Software for Autonomous Vehicles (2022S)
- CS 3270 - Programming Languages (2019F, 2020S, 2020F, 2021S)

Teaching Assistantships – M.S.

- Programming Languages
- Analysis of Algorithms

RESEARCH PRESENTATIONS

- Poster, AAAI 2024
- Poster, EMNLP 2024
- Poster, CogSci 2025
- Talk, FLAIRS 2026

PROFESSIONAL SERVICE

Peer Review

- ICLR 2026
- EMNLP 2026
- FLAIRS 2026
- AAAI 2026
- ACS 2025
- ACL Rolling Review (ARR), February 2025
- REALM Workshop, ACL 2025

Organizing Committees

- FLAIRS 2026 Special Track: Human-AI Collaboration and Augmented Intelligence (HAICAI)

MENTORING & ADVISING

Undergraduate Research Intern Mentees (only includes mentees that contributed to an eventual peer-reviewed publication):

- Drew Wilenzick (AAAI 2024)
- Oseremhen Ewaleifoh (CoNLL 2024; EMNLP 2024)
- Thao Pham (CoNLL 2024; EMNLP 2024; CogSci 2025)
- Daryl Watson (FLAIRS 2026; preprint 2026)
- William Ward (preprint 2026)
- Greyson Heyboer (preprint 2026)

TECHNICAL SKILLS

Languages: Python (primary), Java, C/C++, SQL, PHP, Haskell, Lua

Libraries & Tools: NumPy, pandas, Matplotlib, TensorFlow, PyTorch, scikit-learn

(Natural) Languages: Japanese (Elementary Proficiency)

Graduate Courses Taken

PhD – Vanderbilt University

- CS 8395 – Special Topics: Computational Game Theory (2021F)
- CS 6388 – Model-Integrated Computing (2020F)
- CS 5891 – Special Topics: Social Network Analysis (2020F)
- CS 8395 - Special Topics: Visual Analytics and Machine Learning (2020S)
- CS 6360 – Advanced Artificial Intelligence (2020S)
- EECE 6354 – Advanced Real-Time Systems (2019F)
- CS 8395 – Special Topics: Computation and Cognition (2019F)
- CS 6376 – Hybrid and Embedded Systems (2019F)

MS – University of Mississippi

- CSCI 556 – Multiparadigm Programming (2018F)
- CSCI 561 – Computer Networks (2018F)
- CSCI 547 – Digital Image Processing (2018F)
- CSCI 581 – Special Topics: Compiler Design (2018S)
- CSCI 581 - Special Topics: Natural Language Processing (2018S)
- CSCI 531 - Artificial Intelligence (2018S)
- ENGR 692 – Special Topics: High-Performance Computing (2017F)
- ENGR 691 – Special Topics: Random Algorithms (2017F)
- CSCI 533 – Analysis of Algorithms (2017F)