Stanford



Kushin Mukherjee

Postdoctoral Scholar, Psychology

Bio

PROFESSIONAL EDUCATION

- PhD, University of Wisconsin-Madison , Psychology (2025)
- MS, University of Wisconsin-Madison , Psychology (2021)
- AB, Vassar College , Cognitive Science & Japanese (2019)

STANFORD ADVISORS

- Judith Fan, Postdoctoral Faculty Sponsor

Research & Scholarship

LAB AFFILIATIONS

- Judith Fan, Cognitive Tools Lab (4/1/2025)

Publications

PUBLICATIONS

- **Large Language Models Estimate Fine-Grained Human Color-Concept Associations.** *Cognitive science*
  Mukherjee, K., Mohapatra, A., Rogers, T. T., Schloss, K. B.
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- **Drawings of THINGS: A large-scale drawing dataset of 1854 object concepts.** *Behavior research methods*
  Mukherjee, K., Huey, H., Stoinski, L. M., Hebart, M. N., Fan, J. E., Bainbridge, W. A.
  2026; 58 (2): 57
- **EncQA: Benchmarking Vision-Language Models on Visual Encodings for Charts** *IEEE TRANSACTIONS ON VISUALIZATION AND COMPUTER GRAPHICS*
  Mukherjee, K., Ren, D., Moritz, D., Assogba, Y.
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- **AI-Enhanced Semantic Feature Norms for 786 Concepts.** *Topics in cognitive science*
  Suresh, S., Mukherjee, K., Giallanza, T., Yu, X., Patil, M., Cohen, J. D., Rogers, T. T.
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- **SEVA: Leveraging sketches to evaluate alignment between human and machine visual abstraction**
  Mukherjee, K., Huey, H., Lu, X., Vinker, Y., Aguina-Kang, R., Shamir, A., Fan, J. E.
  edited by Oh, A., Neumann, T., Globerson, A., Saenko, K., Hardt, M., Levine, S.
  NEURAL INFORMATION PROCESSING SYSTEMS (NIPS).2023

- **Context Matters: A Theory of Semantic Discriminability for Perceptual Encoding Systems.** *IEEE transactions on visualization and computer graphics*
  Mukherjee, K., Yin, B., Sherman, B. E., Lessard, L., Schloss, K. B.
  2022; 28 (1): 697-706
- **Affective Color Scales for Colormap Data Visualizations** *IEEE TRANSACTIONS ON VISUALIZATION AND COMPUTER GRAPHICS*
  Braun, H. C., Mukherjee, K., Gorelik, S. R., Schloss, K. B.
  2026; 32 (1): 692-702
- **Using drawings and deep neural networks to characterize the building blocks of human visual similarity.** *Memory & cognition*
  Mukherjee, K., Rogers, T. T.
  2025; 53 (1): 219-241
- **Shaping vision through drawing** *NATURE REVIEWS PSYCHOLOGY*
  Mukherjee, K.
  2024; 3 (7): 446
- **Conceptual structure coheres in human cognition but not in large language models**
  Suresh, S., Mukherjee, K., Yu, X., Huang, W., Padua, L., Rogers, T. T.
  edited by Bouamor, H., Pino, J., Bali, K.
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