

Felix Jedidja Binder

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Full CV

Education

2019–2025	University of California San Diego	PhD in Cognitive Science
2024–2025	Stanford University	Visiting Researcher
2013–2019	Freie Universität Berlin	Bachelor of Arts in Philosophy & Computer Science

Experience

2025 Menlo Park	Research Scientist Meta <i>Meta Superintelligence Labs</i> <ul style="list-style-type: none">AI Safety & Alignment for TBD Labs
2025 San Francisco	Research Scientist Scale AI <i>Safety, Evaluations & Alignment Lab</i> <ul style="list-style-type: none">Leading development of benchmark measuring active value learning in LLMs for public evaluation.Contributing to economic impact evaluation of Computer Use Agents.
2019–2024 San Diego	Graduate Student Researcher University of California San Diego <i>Cognitive Science Department</i> <ul style="list-style-type: none">Created and maintained a full stack setup for running web experiments evaluating human and AI behavior on a range of cognitive tasks (Cognitive AI Benchmarking).Led a study comparing humans and planning algorithms on a simulated physical construction task.Created a dataset for a large benchmarking study of physical understanding in humans & AI (Physion) with NeuroAILab (Stanford) and Computational Cognitive Science lab (MIT).Evaluated a broad suite of state-of-the-art vision & particle-based AI models on the Physion dataset. Found that AI models do not yet meet human performance in physical understanding.Created public outreach videos on neural networks and AI ethics for high school students with pathways2AI.Taught undergrad & graduate courses, including <i>Reinforcement Learning</i> and <i>Data Science</i>.Organized the Cognitive AI Benchmarking workshop at the 45th Annual Meeting of the Cognitive Science Society.
2024 Berkeley	AI Safety Research Fellow with Owain Evans Constellation Astra Fellowship <ul style="list-style-type: none">Developed novel experimental framework to train and evaluate introspection in large language models (LLMs).Demonstrated that frontier LLMs (GPT-4, GPT-4o, Llama 3 70B) can acquire knowledge about themselves through introspection, not just from training data.
2023 Cambridge, MA	AI Research Scientist Intern Cambria Labs <ul style="list-style-type: none">Oversaw creation of multimodal video dataset for physical understanding and prediction.Built a data pipeline for data management & model training; implemented and trained a suite of vision transformer based models on the dataset.
2023	Artificial General Intelligence Safety Fundamentals Course BlueDot Impact <ul style="list-style-type: none">Developed an evaluation protocol that isolates causal effects of context for analyzing steganographic tendencies (covert information encoding) in large language models.Conducted an investigation into potential steganographic behavior in current LLMs, utilizing the aforementioned evaluation protocol.

Skills

Programming & AI Python & PyTorch, AI Safety & Alignment, RL, LLMs, Interpretability, Planning & Reasoning, Evals
Statistics Experiment Design, Model Fitting & Analysis, Hypothesis Testing, Bayesian Statistics
Communication Scientific Writing, Public Science Communication, Data Visualization, Cross-Field Communication

Selected Publications

* indicates equal contribution.

- 2025 **Binder, F.**, Mattar, M., Kirsh, D., & Fan, J. Humans Select Subgoals That Balance Immediate and Future Cognitive Costs During Physical Assembly. *Cognitive Science*.
- 2025 **Binder, F.** Thinking Through Action: Prediction, Planning, and Metacognition in Problem-Solving. *Doctoral dissertation, University of California, San Diego*. [Dissertation](#)
- 2024 **Binder, F.***, Chua, J.*, Korbak, T., Sleight, H., Hughes, J., Long, R., Perez, E., Turpin, M., & Evans, O. Looking Inward: Language Models Can Learn About Themselves by Introspection. *ICLR 2025*. | [Code](#) & [Paper](#)
- 2021 Bear, D.*, Wang, E.*, Mrowca, D.*, **Binder, F.***, Tung, H., Pramod, R. T., Holdaway, C., Tao, S., Smith, K., Sun, F., Fei-Fei, L., Kanwisher, N., Tenenbaum, J., Yamins, D.** & Fan, J.** Physion: Evaluating Physical Prediction from Vision in Humans and Machines. *NeurIPS 2021 (Datasets & Benchmarks track)* | [Code & Paper](#), [NeurIPS Presentation](#)