

# JACOB PFAU

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## EDUCATION

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- New York University, Bowman Lab** Fall 2022 - Present  
PhD Student NYU Alignment Research Group, Center for Data Science  
Current work includes: Red-teaming and latent adversarial training for LMs, Filler tokens and chain-of-thought in LMs
- University of Edinburgh** Sept. 2021 - Aug. 2022  
MSc Mind, Language and Embodied Cognition (Philosophy Department). First class honors  
Dissertation: 'When Decision Theories and AI Bluff in Games with Perfect Information'
- Ecole Polytechnique (Université Paris-Saclay), Paris** Sept. 2018 - Aug. 2019  
M1, Masters Computer Science, Data Science track. GPA 3.91
- Amherst College** Sept. 2013 - May 2017  
BA Mathematics & 5 College Logic Certificate. GPA (Math/CS/Logic) 3.73, Overall GPA 3.64  
ETH Zurich (Math) Visiting student Jan-Aug 2016. GPA 5.34/6.0

## EMPLOYMENT

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- Anthropic, Contractor** Dec. 2023 - Present  
Collaborative project writing report on 'Responsible Scaling for AI Moral Patienthood' assessing the implications of philosophy literature on LLMs
- AI Safety Camp, Mentor** Mar. 2023 - July 2023  
Mentored four researchers transitioning into AI safety. Developed a benchmark for evaluating LM self-consistency on an arithmetic task
- University of California, San Francisco. Keiser Lab, Bold and Basic Fellow** Mar. 2019 - Aug. 2020  
Developed interpretability methods and benchmarking datasets for clinical imaging. Mentored rotating students

## PUBLICATIONS

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- Eliciting Language Model Behaviors using Reverse Language Models.** <http://tinyurl.com/rlmpdf>, Pfau J, Infanger A, Sheshadri A, Panda A, Huebner C, Michael J. Spotlight SoLaR at NeurIPS (2023)
- Open problems and fundamental limitations of reinforcement learning from human feedback,** Casper S, ..., Pfau J, et al. TMLR (2023)
- Self-Consistency of Large Language Models under Ambiguity,** Bartsch H, ... Pfau J. BlackboxNLP (2023)
- Objective Robustness in Deep Reinforcement Learning,** Koch J, Langosco L, Pfau J, Le J, Sharkey L. ICML (2022)
- Robust Semantic Interpretability: Revisiting Concept Activation Vectors,** Pfau J, Young A, Wei J, Wei M, Keiser M. ICML Workshop on Human Interpretability (2020)
- Stress Testing Reveals Gaps in Clinic Readiness of Image-Based Diagnostic AI Models,** Young A, Fernandez K, Pfau J, et al. npj Digital Medicine (2020)
- Artificial Intelligence in Dermatology: A Primer,** Young A, ... Pfau J, et al. Journal of Investigative Dermatology (2020)
- Artificial Intelligence in Teledermatology,** Xiong M, Pfau J, et al. Curr Derm Rep (2019)
- Global Saliency: Aggregating Saliency Maps to Assess Dataset Artefact Bias,** Pfau J, Young A, Wei M, Keiser M. NeurIPS ML4Health (2019)

## FELLOWSHIPS AND AWARDS

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- Bold and Basic Fellowship, University of California, San Francisco** Sept. 2019 - Aug. 2020  
Awarded yearlong research fellowship for applying CNNs to bridge skin cancer image data and vectorized genomic data
- Research Internship Prize, Ecole Polytechnique, Paris (for work conducted at UCSF)** Oct. 2019
- Labex DigiCosme Fellowship, Labex DigiCosme, Paris** Sept. 2018 - Mar. 2019

## SKILLS AND MISCELLANEOUS

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**LANGUAGES:** English (native), German (fluent), French (conversant), Mandarin (basic)