

Jeremy Wayland

Machine Learning Researcher | Founder

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Machine learning researcher and founder specializing in geometric deep learning and scalable AI infrastructure. Experienced in developing production ML pipelines ([Krv Labs](#)) and leading representation learning research ([AIDOS Lab](#)). Passionate about transforming complex enterprise data into reliable, production-grade intelligence.

TECHNICAL SKILLS

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|--------------|-----------|-----------|--------------|
| • Docker | • FastAPI | • PyTorch | • OpenAI SDK |
| • Kubernetes | • Next.js | • WandB | • LangGraph |
| • Terraform | • Figma | • SLURM | • Neo4J |

EXPERIENCE

KRV LABS — *Founder and AI Lead*

June 2023 - Present

- Developing a **cloud-native adapter platform** that dynamically *converts fragmented enterprise data into standardized, AI-ready infrastructure*—reducing integration time and cost for custom vertical AI deployments.
- Led **healthcare ML projects**, including a UTI prediction model for CHOC Children’s—deployed via *FastAPI* backend and *Node.js* mobile interface used by urologists in-clinic.
- Developed custom **multi-agent Recruitment Assistant** via *graphRAG*, leveraging graph-based reasoning to assess candidate success from historical ATS data.

HELMHOLTZ MUNICH — *Doctoral Researcher*

August 2022 - Present

- Leading research projects in **geometric deep learning**, developing open-source frameworks ([Rings](#), [Scott](#)) for graph structure evaluation and representation robustness. *Publications in NeurIPS 2023 and ICML 2025.*
- Leading **representation learning** publications ([Presto](#)) using topology and geometry to analyze embedding sensitivity in large language models. *Published at ICML 2024.*
- Collaborating on high-impact, international projects including **coal-plant phaseout strategies** and the efficacy of **care delivery networks** ([Thema](#), [Apparent](#)). *Publications in Nature Energy & Communication in CS.*

EDUCATION

TECHNICAL UNIVERSITY OF MUNICH — *Dr. rer. nat. in Mathematics (in progress)*

August 2022 - Present

- Research in mathematics for machine learning with three first-author publications (NeurIPS, ICML) and two applied papers in high impact journals (energy & medicine). *Expected Magna Cum Laude graduation.*

CHAPMAN UNIVERSITY — *Msc. Computational Data Sciences and Machine Learning*

August 2020 - June 2022

- Coursework in *AI, statistics, and advanced computing* (GPA 3.8). Conducted research in topology and category theory; served as **grant-funded research scientist** at CHOC’s [Computational & Data Science Research Team](#).

UNIVERSITY OF CALIFORNIA, BERKELEY — *B.Sc. in Mathematics (Honors) and Astrophysics*

August 2015 - December 2019

- Rigorous coursework in physics & mathematics. Completion of **honors thesis** in category theory & logic. Contributions in *theoretical astrophysics* (w/ [R. Anantua](#)) and *observational cosmology* (w/ [A. Filippenko](#)).

PUBLICATIONS

NeurIPS 2023 ([Curvature Filtrations for Graph Generative Model Evaluation](#)); ICML 2024 ([Mapping the Multiverse of Latent Representations](#)); ICML 2025 ([Principled Evaluations of Graph-Learning Datasets](#)); Nature Communications in Computer and Information Science ([Physician Referral Networks via Ricci Curvature](#)); Nature Energy ([Strategies to Accelerate US Coal Power Phaseout](#))