

Stefan Webb, PhD

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- Generative-modeling researcher turned developer advocate: PhD from the University of Oxford, now leading developer relations at Oumi, with purpose-built agents scaling discovery, monitoring, and more.
- Impact in both developer reach and go-to-market: an article on Hacker News front page and 50,000 Reddit views; launches driving 10× marketing-site traffic and new pipeline; research behind NYTimes article.
- Advocacy backed by working code: open-source libraries for building low-latency agentic tools with local open-weight models, local real-time AI voice agents, and agentic video production.
- Six years across ML research (Meta, Twitter) and developer relations (Oumi, Zilliz). Publications at NeurIPS, ICML, ICLR, UAI, and JMLR. Based in San Francisco.

SELECTED PORTFOLIO

Video (all produced end-to-end)

- Product demo, [“A Tour of the Oumi Platform: Own Your AI, Compound Your Edge”](#)
- Vlog, [“AI Voice Agents as a Video Game Mechanic?”](#)
- Tutorial, [“Produce Videos with AI in Premiere Pro for Free using Local, Open-Weight Models”](#)

Short-form (likewise)

- [“Custom AI in Hours Not Months”](#)
- [“How do I create a 3D object from an image using Microsoft’s TRELIS.2 \(for free\)?”](#)
- [“The two-and-a-half 3D asset formats you need to know for GameDev”](#)

Writing (all written without AI assistance)

- Oumi Blog, [“Small Fine-tuned Models are All You Need”](#)
- Basis for a highly-cited [NYTimes article](#): [“Oumi’s Study Finds 50% of AI Overviews Untrustworthy”](#)
- Milvus Blog, [“I Built a Deep Research with Open Source—and So Can You!”](#)
- gamedev.blog, [“The Curious Case of the LeetCode Problem that Was Useful in the Real World”](#)

Events

- AI Dev 26 SF, [“VibeML: Build your AI model in hours, not months”](#)
- Webinar, [“Build custom AI in hours not months with Oumi”](#)
- Meetup host and speaker (twice a month), [“Unstructured Data Bay Area”](#)

Open Source (AI-assisted, using Claude Code)

- [named-pipes](#): alternative to MCP and CLI for local agentic tool servers (LLM inference, TTS, STT, vector search) built on low-latency interprocess communication; ships a TUI and Claude Code skill
- [unity-voice-agents](#): Unity package for fully local, real-time AI voice agents built on open-weight models and named-pipes, for non-player characters and in-game interfaces
- [premiere-cli](#), [premiere-ai](#), [premiere-ai-skills](#): toolchain for automating video production in Adobe Premiere Pro — CLI tool and Premiere plugin, local open-weight speech transcription, word-level timestamps, diarization, silence removal, AI cut selection, and Claude Code skills

Docs & Tutorials

- Product documentation, [“Oumi Platform: Custom AI in hours not months”](#)
- Tutorial, [“Building a web browsing agent from scratch”](#)

EXPERIENCE

Oumi, *Lead Developer Relations Engineer*

May 2025–Present

- Own the developer-facing surface end to end: product and technical videos, marketing website, webinars, industry booths, product documentation, blog, newsletter, and a hosted agent for scaling developer relations processes.
- Led two go-to-market product launches driving 10× marketing-site traffic and new top-of-funnel pipeline, the most recent reaching 50,000 views, 1,000 reactions, and 250 comments on LinkedIn.
- Performed original research that formed the basis for a highly-cited [NYTimes article](#), syndicated in Newsweek, NewsNation, NYPost, PCMag, Ars Technica, and a dozen other media outlets.

Zilliz, *Developer Advocate*

Sep 2024–May 2025

- Chief evangelist in the Bay Area for Milvus, the leading open-source vector database.
- Organized and spoke at twice-monthly meetups, industry conferences, webinars, and hackathons.
- Wrote technical articles on RAG and agent methodology, multimodal semantic search, model evaluation, and research agents. A Deep Research piece reached the [Hacker News front page](#) and [50,000 Reddit views](#).

Startup Founder and Generative AI Advisor

Jun 2023–Mar 2024

- Prototyped a web-app for generation and delivery of personalized educational content using fine-tuned LLMs.
- Advised startup founders and investors in hedge funds, mutual funds, and sovereign wealth funds on Generative AI trends: training and inference costs, benchmark performance, open versus closed source, and rate of industry adoption.

Meta, *Machine Learning Researcher*

Aug 2021–Nov 2022

- Spearheaded use of Bayesian statistical testing to improve the reliability of online experimentation.
- End-to-end development of ML pipelines including large-scale data processing with Trino.

Twitter, *Machine Learning Researcher*

Oct 2019–Aug 2021

- Applied ML Researcher collaborating with product teams in Revenue Science, Health, Experimental Data Science, and Interest Discovery to solve long-term ML challenges, pioneering graph-based neural networks.

EDUCATION

University of Oxford, *Doctor of Philosophy*

2014–2019

- Awarded full funding by EPSRC for dissertation research at intersection of Bayesian statistics and deep learning, supervised by Prof M. Pawan Kumar and Prof Yee Whye Teh.

SKILLS

- **Frameworks:** PyTorch, Hugging Face (Transformers, Diffusers, PEFT, TRL), vLLM, MLX LM, Ollama.
- **Architectures:** Transformers, diffusion models, flow matching, state-space models, mixture-of-experts.
- **Fine-tuning and efficiency:** RLHF, DPO, GRPO, LoRA and its variants, quantization like NF4, GPTQ, and AWQ.

PUBLICATIONS

1. Ben Chamberlain, James Rowbottom, Emanuelle Rossi, **Stefan Webb**, Maria Gorinova, and Michael Bronstein. *GRAND: Graph Neural Diffusion*. Thirty-eighth International Conference on Machine Learning (ICML2021). <https://arxiv.org/abs/2106.10934>.
2. Benjie Wang, **Stefan Webb**, and Tom Rainforth. *Statistically Robust Neural Network Classification*. Thirty-seventh Conference on Uncertainty in Artificial Intelligence (UAI2021). <https://arxiv.org/abs/1912.04884>.
3. **Stefan Webb**, Tom Rainforth, Yee Whye Teh, and M. Pawan Kumar. *A Statistical Approach to Assessing Neural Network Robustness*. Seventh International Conference on Learning Representations (ICLR2019). <https://arxiv.org/abs/1811.07209>.
4. **Stefan Webb**, Adam Golinski, Robert Zinkov, N. Siddarth, Tom Rainforth, Yee Whye Teh, Frank Wood. *Faithful Inversion of Generative Models for Effective Amortized Inference*. Thirty-second Conference on Neural Information Processing Systems (NeurIPS2018). <https://arxiv.org/abs/1712.00287>.
5. Leonard Hasenclever, **Stefan Webb**, Thibaut Lienart, Sebastian Vollmer, Balaji Lakshminarayanan, Charles Blundell, and Yee Whye Teh. *Distributed Bayesian Learning with Stochastic Natural-gradient Expectation Propagation and the Posterior Server*. JMLR 18, 1–37 (2017). <http://arxiv.org/abs/1512.09327>.