Oliver Muellerklein

AI Researcher and Data Scientist

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thru-echoes
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Leveraging a biology foundation and expertise in machine learning and AI, I am an interdisciplinary Data Scientist with a decade of experience in academia and tech. I am now poised to apply my innovative problem-solving abilities to deliver impactful AI solutions to industry.

Skills

- *Languages:* Python, C, JS, Clojure, SQL
- *Frameworks:* TensorFlow, PyTorch, Keras, FastAI, NLTK, Gensim, XGBoost, DeepLearning, CUDA, React, Django, NodeJS, Transformers, HF
- *Computing:* Distributed, parallel, HPC, and Cloud, including AWS, GCP, and Azure List one of your strengths
- *Tools:* ML, DL, RL, Generative AI, LLM

Experience

DEC 2023 – PRESENT
AI Researcher and Data Scientist / Artisan-AI (contract)
- Designed and implemented vector database schema for B2B LLM pipeline
- Deployed In-Context Learning in the LLM pipeline to *reduce model hallucinations by **20%***

JAN 2023 – PRESENT
AI and Data Science Tutor / Wyzant
- Private AI and Data Science tutor with over 600 hours, ***135 5-star reviews*** from students

OCT 2022 – PRESENT
Science Mentor / Headwaters Science Institute
- Ran a 6-week summer camp teaching ecology and environmental science to low-income elementary students
- Mentored 10 groups of low-income high school students through the entire process of designing and implementing an ecoinformatics research project

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Education

AUGUST 2015 – AUGUST 2020 *(LEAVE OF ABSENCE; EXPECTED GRADUATION 2025)*
Ph.D. Candidate / UC Berkeley
Authored 12 scientific publications, *3 as primary author*, including a deep learning paper *in Nature.*

MAY 2013
B.S. Biological Sciences / U. Maryland, Baltimore County
Graduated *Cum Laude*, T.A. for Introduction to Ecology and Evolution, and won research awards.

Awards & Recognition

- **Wyzant Featured Tutor:** Featured tutor for AI and Data Science April 2024
- **SESYNC Graduate Pursuit Fellow:** NSF-sponsored fellowship from 2018 to 2020
- **CalHacks2.0 Winner:** PwC's challenge: Best K-12 Web Game Teaching Financial Literacy
- **Best Undergraduate Research Award:** Wilson Ornithological Society, 2013 & 2014

Tutoring Reviews

- "Excellent Machine Learning Tutor"
- "Oliver's passion for the subjects is infectious, making each moment spent with him not only educational but truly inspiring. He is an ideal mentor for AI / LLM / Data Science"
- **"**He can take intricate and challenging subjects and reduce them to simple terms and concepts"
- "Oliver is a great teacher. He is super knowledgeable, patient, and helpful. I highly recommend him to anyone looking for an experienced Data Science tutor"