Tyler C. Marino

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Overview:

Through professional and academic research, I have been developing skills in sensor fusion, machine learning and visualization to evolve algorithms for large data interpretation and communication. I have a special interest in modeling dynamic systems through spatial-temporal data with multi-modal approaches. I believe that testing against mathematical representations of known interactions will help reduce error and encourage bias to be known.

Education:

Université Paris – Saclay — Saclay, France
Master's degree: *Computer Science, Artificial Intelligence* — **September 2026**
University of California, Berkeley — Berkeley, CA
Bachelor of Arts*: Applied Mathematics Emphasis in Data Science* — ***GPA***: 3.50 — **May 2024**

Technical Experience and Academic Projects:

Machine Learning Engineer Intern (Natural History Museum France): **Mar '26-Present**
- Sample efficient fine-tuning of deep learning model to overcome medical domain shift and generalize well.
- Introduce active learning strategies to improve human computer interaction and allow for human control
- Communicate between scientific research groups and computer science faculty to design accessible AI

Staff Research Associate in Data Science (UC Berkeley): *Publication , In Prep* **Jan '24-Sept '25**
- Develop statistical, probabilistic and neural network frameworks to up sample non-uniform ecological data.
- Model multivariate dynamic linear systems and long term trends over spatial-temporal ecological domains.
- Write tests, Data management, present findings at conferences, write manuscripts, make R shiny apps.

Ai for Good (Hult University) + Code4Compassion Hackathon: Question-Hour **March '25**
- Build news scrapers, generate questions, track responses in Neo4j Database, explore article generation.
- Design functional webpage (React, Flask, js) to visualize response and location data (google places API).

Data Lead (Upton Consulting Group): **May '23-May '24**
- Oversee technology solutions component for Diversity Equity and Inclusion consulting firm.
- Clean and analyze DE&I survey data, compare confounding variables, and disaggregate data.
- Develop reports communicating data findings, advise next steps for companies 30-5000 employees.

Relevant Coursework:

Probabilistic Generative Models, Frugal AI, Signal Processing, Web of Data, DS for Urban Systems, Computer Vision, Reinforcement Learning, Social/Graph Data, Knowledge Graphs, Learning Theory, text mining/chatbots

Professional Experience:

The Faculty Club at UC Berkeley (Banquet and Dining Room Server): ***Aug '23- May '25***
- Fine dining establishment, communicate in Spanish, lead teams in workplace operations, train new staff.

International House Dining (Lead): UC Berkeley ***Feb '22-Aug '23***
- Organize shipments (>100 items), operate/troubleshoot industrial machinery, manage staff of 10-15.

Leadership and Volunteering:

Ai for Animals, Lead Volunteer: **March '25**
- Managing logistics for a conference on AI algorithms, ethics and agents centered around research.

1% for the Planet, Global Summit Volunteer: **October '24**
- Quality assurance for a conference focusing on Sustainable business and collaboration.

Student Representative for UC Berkeley Maps Community of Practice: **Jan '23-May '24**
- Facilitate faculty, professionals, and students to learn and discuss mapping practices in various disciplines.

Awards and Certificates:

{Tech: Europe} Paris Hackathon: *3rd Place* **Sept '25**
- Engineer AI web agent with action cache memory by semantically encoding tasks avoiding cold starts.

California Transportation Foundation Scholar: **Fall '23**
- Selected amongst California's top transportation scholars. Urban policy in the age of data

Applied Mathematics School at King Abdullah University of Science and Technology (KAUST): **Fall '22**
- Research methods in computational statistics for large scale data analysis. Only US scholar invited.

SERC Science Scholar **Summer '22**
- Participate in discussion and learn best practices for advancement in environmental and spatial computing.

Skills:

- **Programming:** Python + R(ML/DataVis), SQL, Java Script, HTML, AI Full Stack development, ArcGIS
- **Personal:** Communication, Adaptability, Organization, Creativity