

Tyler C. Marino

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Overview:

Through professional and academic research, I have been developing skills in machine learning, data visualization, and modeling to evolve algorithms for large data interpretation and communication. I have a special interest in spatio-temporal data. Dynamic systems motivate my interest in mixed modeling approaches using mathematical representations of known interactions while utilizing and learning machine interpretations of latent components.

Education:

Universite Paris – Saclay	Saclay, France
Master's degree: <i>Computer Science, Artificial Intelligence</i>	August 2026
University of California, Berkeley	Berkeley, CA
Bachelor of Arts: <i>Applied Mathematics Emphasis in Data Science</i>	GPA: 3.50
	May 2024

Technical Experience and Academic Projects:

Staff Research Associate in Data Science (UC Berkeley): *1 Publication in Press, 1 in Prep* **Jan '24-Sept '25**

- Develop statistical, probabilistic and neural network frameworks to upsample non-uniform ecological data.
- Multivariate dynamic linear models and linear regression for trend detection over spatio-temporal domains.
- Write tests, clean and manage data, present findings at conferences, write manuscript, make R shiny app.

Ai for Good (Hult University) + Code4Compassion Hackathon: <https://question-hour.vercel.app> **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.

Global Marketing Analyst Intern (BlackPrint Technologies): **Jan - April '23**

- Research marketable strategies for digital twin modeling and computer vision technology in Latin America.
- Engage with earth imaging algorithms for land use, groundwater detection, governmental facilities.

Relevant Coursework:

Linear Algebra, Numerical Analysis, Probabilistic Generative Models, Frugal AI, Signal Processing, Semantic Web Ontologies, Time Series Analysis, Bayesian Data Analytics and Machine Learning, Urban Systems Modeling

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:

California Transportation Foundation Scholar **Fall '23**

- Selected amongst California's top transportation scholars. Only Data Scientist to be invited.

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 to be invited.

SERC Science Scholar **Summer '22**

- Participate in discussion and learn best practices for advancement in environmental and spatial computing.

Top 10 National Steel Bridge Competition (Assembly Team) **Feb - June '23**

- Design, Fabricate, Construct and assemble Steel bridge. 7th place out of 170+ schools.

Skills:

- **Programming Tools:** Python, R, Java, SQL, Java Script, HTML, CSS, Postman
- **Personal:** Communication, Adaptability, Organization, Creativity
- **Computer skills:** Microsoft suite; Google Suite; Canva; ArcGIS, Full Stack Development