



Degree	College/University	Year	GPA
Ph.D. Applied & Computational Mathematics	California Institute of Technology	2024–Present	3.95
B.A. Mathematics	San Francisco State University	2021–2023	3.954
B.S. Computer Science	San Francisco State University	2021–2024	3.959

Research Experience

RESEARCH POSITIONS

- **Ph.D. Student | Caltech** June 2024–Present
 - *Randomized Linear Algebra, Tensor Networks, Efficient Low-Rank Approximation*
 - Second-year graduate student in [Dr. Joel A. Tropp](#)'s research group, funded by the NSF GRFP and an internal fellowship. We are developing new methods at the intersection of randomized linear algebra and tensor network algorithms.
- **Researcher | Caltech Summer Research Fellow** Summer 2023
 - *Randomized Linear Algebra, Tensor Networks, Hamiltonian Simulation*
 - Collaboration with [Dr. Ethan N. Epperly](#) and [Dr. Joel A. Tropp](#) on a [randomized algorithm for the compressed MPO–MPS product](#). Funded by the California State University Pre-Doctoral Award.
- **Researcher | San Francisco State University / CAHSI NSF Fellow** February 2022–May 2024
 - *Gaussian Process Theory, Bayesian Deep Learning, Dimensionality Reduction*
 - Collaboration with [Dr. Daniel Huang](#) focused on efficient approximate Gaussian process models and concurrent programming techniques for Bayesian deep learning.
- **Researcher | Lawrence Berkeley National Laboratory (LBNL)** Summer 2022
 - *Randomized Linear Algebra, Tensor Networks, Hamiltonian Simulation*
 - Research under the guidance of [Dr. Roel Van Beeumen](#) and [Dr. Xiaoye Sherry Li](#) on adapting the Sketched Rayleigh–Ritz algorithm to tensor networks.

RESEARCH WORKSHOPS & SUMMER SCHOOLS

- **Workshop Participant | Institute for Computational and Experimental Research in Mathematics** February 2026
 - *Randomized Linear Algebra, Tensor Methods, Sketching Methods*
 - Participated in the [ICERM workshop on Randomized Numerical Linear Algebra](#), presenting a poster on sparse and tensor sketching.
- **Workshop Participant | Simons Institute for the Theory of Computing** October 2025
 - *Linear Systems, Eigenvalue Problems, Tensor Decomposition*
 - Participated in the [Simons Institute workshop on Linear Systems and Eigenvalue Problems](#), contributing to the tensor section of the Simons 25 open problems collection.
- **Summer School Participant | Institute for Pure and Applied Mathematics (IPAM)** August 2025
 - *Randomized Orthogonalization, Inverse Problems, Advanced Krylov Solvers*
 - Collaboration with [Dr. Julianne Chung](#) and [Dr. Silvia Gazzola](#) on integrating randomized orthogonalization into Krylov solvers such as GMRES and LSQR for ill-posed inverse problems. Hosted as part of the [IPAM 2025 RNLA workshop](#).
- **Summer School Participant | Mathematical Sciences Research Institute (MSRI/SLMath)** June 2023
 - *Dependent Type Theory, Formal Proof Verification*
 - Invited to attend a graduate seminar on theorem proving in `Lean4`, representing San Francisco State University. Formalized a proof in functional analysis regarding the nonlinear Hahn–Banach theorem, now available in [mathlib](#).

Publications

- **Debiasing Polynomial and Fourier Regression** SOSA 2025
Chris Camaño, Raphael Meyer, Kevin Shu
- **Successive Randomized Compression: A Randomized Algorithm for the Compressed MPO–MPS Product** Quantum 2025
Chris Camaño, Ethan N. Epperly, Joel A. Tropp
- **High-Dimensional Gaussian Process Regression with Soft Kernel Interpolation** TMLR 2025
Chris Camaño, Daniel Huang

Preprints

- **Faster Linear Algebra Algorithms with Structured Random Matrices** In review, 2025
Chris Camaño, Ethan N. Epperly, Raphael A. Meyer, Joel A. Tropp
- **Push: Concurrent Probabilistic Programming for Bayesian Deep Learning** (2023)
Daniel Huang, Chris Camaño, Jonathan Tsegaye, Jonathan Austin Gale

Awards & Fellowships

- **NSF Early Career Conference Grant (ILAS 2026)**, *National Science Foundation* 2026
- **NSF Early Career Travel Award (SOSA 2026)**, *National Science Foundation* 2026
- **NSF Graduate Research Fellowship, three years of support (GRFP)**, *National Science Foundation* 2024
- **Caltech Kortschak Graduate Fellowship, two years of support**, *California Institute of Technology* 2024
- **Data Analytics Challenge Winner**, *Great Minds in STEM Conference* 2023
- **CSU Pre-Doctoral Summer Research Grant**, *California State University System* 2023
- **Latinos in Technology Scholar 2023–2024**, *Silicon Valley Community Foundation* 2023
- **LSAMP Proud Award**, *National Science Foundation* 2023
- **BMC Scholarship in Computer Science**, *San Francisco State University* 2023
- **Classes of the 1960s Endowed Scholarship**, *San Francisco State University* 2023
- **Lilly M. Berry Scholarship**, *San Francisco State University* 2023
- **Pamela Fong Scholarship in Mathematics**, *San Francisco State University* 2023
- **SFSU Alumni Senior Scholarship**, *San Francisco State University* 2023
- **Weinstein Family Scholarship**, *San Francisco State University* 2023
- **SIAM CSE23 Travel Award/SFSU Representative**, *SIAM* 2023
- **Google Explore CSR Scholarship Recipient**, *Google* 2022
- **CSU Pre-Doctoral Sally Casanova Scholarship**, *California State University System* 2022
- **Science Undergraduate Laboratory Internships (SULI) Scholar**, *Lawrence Berkeley National Laboratory / U.S. DOE* 2022
- **SIAM Student Chapter Certificate of Recognition 2021–2022**, *SIAM* 2022
- **CAHSI REU Scholarship Recipient**, *National Science Foundation* 2022
- **Jack R. and Marjorie J. Fraenkel Scholarship in Computer Science**, *San Francisco State University* 2022
- **Jules H. Strauss Scholarship in Computer Science**, *San Francisco State University* 2022
- **Latinos in Technology Scholarship 2022–2023**, *Silicon Valley Community Foundation* 2022

Invited talks & Presentations

INVITED TALKS

- **Mini Symposium Speaker | ILAS 2026** May 2026
 - Invited to present at the International Linear Algebra Society Conference on randomized tensor network Krylov methods.
- **Mini Symposium Speaker | SOSA 2026** January 2026
 - Invited to present at the Symposium on Simplicity in Algorithms on random matrix theory for debiased polynomial regression.
- **Mini Symposium Speaker | SOCAMS 2025** April 2025
 - Invited to present at the Southern California Applied Mathematics Symposium on *randomized tensor networks*.
- **Colloquium Speaker | University of California San Diego** April 2025
 - Invited to speak at the UCSD Mathematics of Information, Data, and Signals Seminar on *randomized tensor networks*.
- **Invited Speaker | Argonne National Laboratory** February 2025
 - Invited to present at the Argonne National Laboratory *Toward Next-Generation Ecosystems for Scientific Computing* workshop on *randomized tensor networks*.
- **Workshop Panelist | Sustainable Horizons Institute 2024** October 2024
 - Participated as a panelist on graduate funding support and graduate school preparation for underrepresented communities.
- **Research Presentation | Caltech** August 2023
 - Delivered a research presentation at Caltech on randomized tensor network algorithms.
- **Conference Panelist | SIAM Conference on Parallel Processing for Scientific Computing (PP22)** February 2022
 - Invited panelist discussing diversity, equity, and inclusion in applied mathematics, representing the undergraduate community.

POSTER PRESENTATIONS

- **Poster Presenter | Institute for Computational and Experimental Research in Mathematics (ICERM)** February 2026
 - Invited to present a poster on oblivious subspace injections at the ICERM workshop on Randomized Numerical Linear Algebra.
- **Poster Presenter | Simons Institute** October 2025
 - Invited to present a poster on oblivious subspace injections at the Simons Institute workshop on Linear Systems and Eigenvalue Problems.
- **Poster Presenter | Joint Mathematics Meetings (JMM) 2024** January 2024
 - Presented research on randomized algorithms for efficient tensor network contraction at the Joint Mathematics Meetings in San Francisco, California.
- **Poster Presenter | Great Minds in STEM Conference 2023** October 2023
 - Presented research findings on UMAP and manifold embedding algorithms at the undergraduate research competition during the Great Minds in STEM Conference in Pasadena, California. Received third place in the research poster competition.
- **Poster Presenter | 51st Annual Whiskeytown Lake Mathematics Conference** October 2023
 - Presented research findings on UMAP and manifold embedding algorithms and participated in a discussion on projective geometry.
- **Poster Presenter | Joint Mathematics Meetings (JMM) 2023** January 2023
 - Presented research conducted at Lawrence Berkeley National Laboratory during a poster session at the Joint Mathematics Meetings in Boston.
- **Poster Presenter | Lawrence Berkeley National Laboratory (LBNL)** August 2022
 - Presented research on tensor networks and eigensolvers at Lawrence Berkeley National Laboratory to staff and fellow undergraduate researchers.

OTHER ACTIVITIES & AWARDS

- **Data Analytics Challenge Winner | Great Minds in STEM Conference 2023** October 2023
 - Received first place in a data analytics challenge during the Great Minds in STEM 2023 Conference in Pasadena, California.
- **University Representative | SIAM Computational Science & Engineering, Amsterdam 2023** March 2023
 - Selected as the representative for the San Francisco State University SIAM chapter to attend the SIAM Conference on Computational Science & Engineering in Amsterdam.

Teaching

- **Teaching Assistant:** Point Set Topology – *San Francisco State University* 2024
- **Teaching Assistant:** Graduate Functional Analysis – *San Francisco State University* 2024
- **Teaching Assistant:** Complex Analysis – *San Francisco State University* 2024
- **Teaching Assistant:** Functional Programming – *San Francisco State University* 2023
- **Teaching Assistant:** Java Programming – *San Francisco State University* 2023

Community Engagement

- **Mentor, Caltech Connection** October 2025–May 2026
 - Engaged in a six-month student mentorship program for promising undergraduate students at community colleges.
- **President, SIAM Chapter at Caltech** July 2025–January 2026
 - Former president of the Caltech SIAM Chapter.
- **President, SIAM Chapter at San Francisco State University** February 2022–May 2024
 - Former president of the San Francisco State University SIAM Chapter. Coordinated guest lectures from professionals in academia, industry, and national laboratories.
- **Mathematics Tutor & Project Lead, San Francisco State University** February 2022–May 2024
 - Provided tutoring services in a range of subjects, from introductory calculus to advanced linear algebra and analysis.

Reviewing

- SIAM Journal on Matrix Analysis and Applications (SIMAX) 2025