

CONNOR CELUM

📞 +1-559-797-5792 ✉ ccelum@calpoly.edu 🆔 0009-0008-6864-7018 🔗 [linkedin.com/in/ccelum](https://www.linkedin.com/in/ccelum)

Assistant Professor, Department of Statistics

California Polytechnic State University, San Luis Obispo

Academic Appointments

California Polytechnic State University

August 2026 – Present

Assistant Professor, Department of Statistics

San Luis Obispo, CA

Education

University of Virginia, Charlottesville, VA

August 2021–May 2025

PhD in Statistics

GPA: 4.0

University of Virginia, Charlottesville, VA

August 2021–December 2023

MS in Statistics

GPA: 4.0

UC Berkeley, Berkeley, CA

August 2018–December 2020

BA in Mathematics, general distinction

GPA: 3.78

Clovis Community College, Fresno, CA

August 2016–May 2018

Associates in Mathematics and Economics, magna cum laude

GPA: 3.94

Dissertation

Title: Early and Middle Phase Clinical Trial Designs for Groups

Advisor: Dr. Mark Conaway

Area: Adaptive designs in oncology and dose-finding

Teaching Experience

California Polytechnic State University

August 2026 – Present

Assistant Professor

San Luis Obispo, CA

- Teaching STAT 1110: “Applied Statistical Concepts and Methods” (Fall 2026).

University of Virginia

July 2022 – May 2025

Lecturer

Charlottesville, VA

- Instructor: STAT 3110 – Foundations of Statistics (Fall 2022–Spring 2024).
- Instructor: STAT 1601 – Introduction to Data Science in R (Summer 2022, Summer 2023).

Industry Experience

Eli Lilly

August 2025 – July 2026

Advisor Statistician

Indianapolis, IN

- Contributed to statistical strategy for late-phase clinical trials.
- Collaborated with multidisciplinary teams on endpoint development and real-world evidence analyses.

AstraZeneca

May 2024 – August 2024

Biostatistics Intern

Gaithersburg, MD

- Developed Phase II clinical trial designs using meta-analytic relationships between renal surrogate endpoints and Phase III outcomes.
- Presented statistical methods and findings to clinical and statistical collaborators.

Peer-Reviewed Publications

1. **Celum, C.**, Horton, B., & Conaway, M. (2024). *The Quasi-CRM Shift Method for Partially Ordered Groups*. Contemporary Clinical Trials, 146, 107400. [doi:10.1016/j.cct.2023.107400](https://doi.org/10.1016/j.cct.2023.107400)
2. **Celum, C.**, & Conaway, M. (2024). *A Model-Assisted Design for Partially or Completely Ordered Groups*. Pharmaceutical Statistics. [doi:10.1002/pst.2396](https://doi.org/10.1002/pst.2396)

Research Interests

Clinical trial design, Bayesian adaptive methods, dose-finding methodology, early-phase oncology trials, public health, and statistical applications to linguistics.

Technical Skills

Programming: R, R Markdown, R Shiny, SAS, Python, L^AT_EX

Languages: English (native), Spanish (B1; actively improving)

Awards and Fellowships

FDA-OCE-ASA Oncology Educational Fellowship	2024–2025
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GSAS Research and Professional Development Fellowship	2021
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Professional Memberships

American Statistical Association	2022–Present
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Conference Presentations

Celum, C. (2024). *A Model-Assisted Design for Partially or Completely Ordered Groups*. 8th Early Phase Adaptive Trials Workshop.

Professional Service

Journal Reviewer , <i>BMC Infectious Diseases</i>	2026
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Personal Interests

Hiking • Backpacking • Learning languages • Cooking • Reading