DAVIS SAMUEL COOPER BERLIND

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Last Updated: July 19, 2025

EDUCATION

2021 - 2026	**University of California, Los Angeles** PhD, Statistics CPhil, Statistics (2024) Advisor: Oscar Hernan Madrid Padilla
2018 - 2020	**Duke University** MS, Economics and Computation
2012 - 2016	**University of Pennsylvania** BA, Philosophy, Politics, Economics – *Cum Laude*

HONORS AND AWARDS

2018	Duke Economics Masters Scholar Award
2016	Delta Phi Alpha, National German Honor Society
2012 - 2016	Benjamin Franklin Scholar
2015 - 2016	Dean's List
2014 - 2015	Dean's List
2015	Wharton Public Policy Initiative Summer Funding Award

PUBLICATIONS

Preprints

1. Berlind, D., Cappello, L. and Madrid Padilla, O.H., (2025). "A Bayesian framework for change-point detection with uncertainty quantification." *arXiv preprint arXiv:2507.01558*.

PRESENTATIONS

Contributed Presentations

1. A Bayesian framework for change-point detection with uncertainty quantification.
   (a) *8th International Conference on Econometrics and Statistics (EcoSta 2025).* Tokyo, Japan (August 2025).

(b) *14th International Conference on Bayesian Nonparametrics (BNP 14)* (Poster). Los Angeles, CA (June 2025).
(c) *2025 NSF/CEME SBIES Conference*. Philadelphia, PA (May 2025).

TEACHING EXPERIENCE

Teaching Fellow, University of California, Los Angeles:

- STATS 10: Introduction to Statistical Reasoning (F22, W23, S23, S24)
- STATS 13: Introduction to Statistical Methods for Life and Health Sciences (SU23, F23, W24)
- STATS 20: Introduction to Statistical Programming with R (F24)
- STATS 100A: Introduction to Probability (SU22)
- STATS 100B: Introduction to Mathematical Statistics (W25, S25)
- STATS 101B: Introduction to Design and Analysis of Experiment (S22, SU23)
- STATS 101C: Introduction to Statistical Models and Data Mining (SU24)

EDITORIAL SERVICE

Reviewer: *Stat* (2)

SOFTWARE AND PROGRAMMING

mich – An R package implementing the Multiple Independent Change-Point (MICH) method introduced in Berlind, Cappello, Madrid Padilla (2025). The main function in the package `mich()` takes a length T sequence $\mathbf{y}_{1:T}$ with potentially many change-points in the mean and variance, and deploys a backfitting procedure to find a variational approximation to the posterior distribution of the change-points.

Programming Languages: Java, Python, R, MATLAB
Typesetting: LaTeX, Markdown
Other: Git, Bash
Cluster Computing: UGE and Slurm Workload Managers

PROFESSIONAL EXPERIENCE

Duke University, Durham, NC
Research Assistant (Christopher Timmins, Rebecca Steorts) Jan. 2019 - July 2020

NYC Mayor's Office of Management and Budget, New York, NY
Analyst July 2017 - Aug. 2018

Cleary Gottlieb Steen & Hamilton LLP, New York, NY
Parallegal — Aug. 2016 - July 2017

University of Pennsylvania, Philadelphia, PA
Research Assistant (Eugen Dimant, Camilo Garcia Jimeno) — Sept 2015 - Aug. 2026

The Brookings Institution, Washington, DC
Research Intern — May 2015 - Aug. 2015

Office of Housing and Community Development, Philadelphia, PA
Compliance Intern — June 2014 - Aug. 2014