

KELLY BODWIN - CURRICULUM VITAE

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ACADEMIC **California Polytechnic State University** **2017-present**
POSITIONS Department of Statistics Assistant Professor (tenure-track)

EDUCATION **The University of North Carolina** **May 2017**
Chapel Hill, North Carolina

Ph.D. Statistics

Dissertation: Methods of Association Mining by Variable-to-Set Affinity Testing
Advisors: [Andrew B. Nobel](#), [Kai Zhang](#)

Harvard University **June 2011**
Cambridge, Massachusetts
B.A. Statistics (*Cum Laude in Field*)

TEACHING

COURSES **Courses at Cal Poly**
STAT 431: Advanced Statistical Computing with R
STAT 419: Applied Multivariate Statistics
STAT 331: Introduction to Statistical Computing with R
STAT 218: Applied Statistics for the Life Sciences

Courses at UNC - Chapel Hill
STOR 155: Introductory Statistics (*Instructor*)
STOR 455: Statistical Methods I (*Course Design*)
STOR 565: Machine Learning (*Course Design*)

Curriculum Contributions
STAT 218: Created Lab Exercises from scratch using R and Shiny, to transition introductory students into thinking about data through software.
(see: github.com/kbodwin/Introductory-Statistics-Labs)
STAT 331: Created interactive “decoding” activities for students to practice R skills while solving fun puzzles. (see: github.com/kbodwin/decodeR)
STAT 431: Designed course.

PUBLICATIONS

Bodwin K, Chakraborty S, Zhang K, and Nobel AB. “Latent Association Mining in Binary Data.” (*in preparation*), Arxiv: 1711.10427

Dellon, ES, **Bodwin K**, He M, Parker JS, Nobel AB, Selitsky SR. “Pre-treatment differential correlation of gene expression is associated with response to topical steroids in eosinophilic esophagitis.” (*in preparation*)

Bodwin K, Zhang K, and Nobel AB. “A testing-based approach to the discovery of differentially correlated variable sets.” (2018), *Annals of Applied Statistics*. 12(2), 1180-1203.

D.M. Day, H.A. Wilson, **K. Bodwin**, C.M Monson. (2015). “Change in Level of Service Inventory - Ontario Revision (LSI-OR) risk scores over time: An examination of overall growth curves and subscale-dependent growth curves.” (2015) *International Journal of Offender Therapy and Comparative Criminology*, , 1-17.

Bodwin K, Rosenthal JS, and Yoon AH. “A statistical approach to judicial authorship: A case study of Judge Easterbrook.” (2013) *Advances and Application in Statistics.*, 37(2): 123-148.

Bodwin K, Rosenthal JS, and Yoon AH. “Opinion writing and authorship on the Supreme Court of Canada.” (2013) *University of Toronto Law Journal*, 63:159-192.

SKILLS

SOFTWARE

Fluent: R (base and tidyverse), ruby, Microsoft Office products

Competent: python, C/C++, javascript, Minitab, SPSS

I AM...

a “people person”: I love working on teams, sharing ideas, and collaborating.

a planner: Deadlines and commitments are my bread and butter.

self-motivated: I am excited about my work, and I put energy into all I do.

creative: Why create something if you can’t have a little fun with it?