Justin Williams

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EDUCATION

University of California, Los Angeles (UCLA)

Expected 2020

Ph.D. – *Biostatistics*

Summer 2017

Graduate Summer Research Mentorship Recipient

M.S. - Biostatistics

Received 2016

Boston College

B.A. – Mathematics 2013

RESEARCH EXPERIENCE

Graduate Student Researcher

2015 - Present

Connie Kasari Lab

- Constructed Bayesian multi-level hierarchical model incorporating spatial random effects
- Assembled data visualization materials with descriptive and time trends
- Modeled longitudinal treatment effects with mixed effects and generalized estimating equations
- Automated reliability analysis with novel functions
- Data management and data cleaning for multisite clinical trial database

Biostatistics R&D Intern Summer 2018

Alcon

- Developed novel methodology for parameter estimation of truncated censored data
- Authored two internal technical documents
- Investigated methods for estimation with left censoring using R and SAS
- Produced functions and macros to simulate data and calculate bias metrics
- Applied methods to estimate parameters for historical clinical trial data

Predictive Analytics Intern-Business Intelligence Team

Summer 2016

Ingram Micro

- Illustrated regional product demand for products to inform warehouse stocking decisions
- Pulled purchasing and warehouse transaction information from servers via SQL
- Engineered product similarity scores based on feature list with mixed scale variables

TEACHING EXPERIENCE

Special Reader: Computer Management of Health Data

Sep '16 – Dec '16

Student Evaluation: 9/9

UCLA, Biostatistics Department

Taught data management tools with SAS to 23 first-year Biostatistics graduate students

Introduced tools for creating randomization schemes and generating reproducible data

Special Reader: Basic Biostatistics

Jan '16 - Mar '16

UCLA, Biostatistics Department

Student Evaluation: 8.89/9

- Led weekly lab sections using Stata on topics such as linear regressions, ANOVA, logistic regression, and non-parametric tests
- Designed and administered discussion sections weekly
- Graded homework and lab assignments

SOFTWARE SKILLS

R (coursework/teaching/research/preferred)

Stata (coursework/teaching)

Julia (coursework)

SQL (work experience)

SAS (internship/coursework/teaching/work)

Python (research)

-Longitudinal Analysis -Spatial Modeling	-Machine Learning
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PUBLICATIONS

Academic Journals

- (1) Locke, J., Williams, J., Shih, W., & Kasari, C. (2017). "Characteristics of socially successful elementary school-aged children with autism", *Journal of Child Psychology and Psychiatry* **58**(1), 94-102.
- (2) Gulsrud, A., Carr, T., <u>Williams, J.</u>, Panganiban, J., Jones, F., Kimbrough, J., Shih, W., & Kasari, C. (In Revision). "Developmental screening and early intervention in a childcare setting for young children atrisk for autism and other developmental delays: A feasibility trial", *Autism Research*.
- (3) Dean, M., <u>Williams, J.</u>, Kasari, C., & Orlich, O. (In Revision). "Adolescents with autism spectrum disorder and social skills groups at school: A randomized trial comparing intervention environment and peer composition", *School Psychology Review*.
- (4) Williams, J., Kim, H., & Crespi, C. (In Review). "Maximum Likelihood Estimation of a Truncated Normal Distribution with Censored Data", *Statistics in Medicine*.

Internal Documents

- (1) Williams, J. & Kim, H. (2018) "Analysis methods for left censored log contrast sensitivity data", Alcon Technical Document (TDOC-0055661).
- (2) <u>Williams, J.</u> & Kim, H. (2018) "Methods for calculating log contrast sensitivity difference with left censoring", Alcon Technical Document (TDOC-0055664).

PRESENTATIONS & CONFERENCES

"Propensity Score Methods for Studies with Clustered Data and Continuous Exposure"

2018 Joint Statistical Meetings

"Using Clustering to Define ASD Subgroups with Differential Play Outcomes" **2018 Gatlinburg Conference**

San Diego, CA

July, 2018

April, 2018

Vancouver, BC, Canada