





Department of Biostatistics, Epidemiology, and Informatics, github.com/ericoh17 
University of Pennsylvania, [@ohenzoh](https://twitter.com/ohenzoh) 
423 Guardian Drive, ericoh@upenn.edu 
Philadelphia, PA 19103. <https://ericoh.org> 

ERIC J. OH

Education

Ph.D. Candidate, Biostatistics, University of Pennsylvania, May 2020.

Dissertation: *Design and Estimation for Time-to-Event Analyses Under Correlated Outcome and Covariate Measurement Error*

Advisor: Pamela Shaw, Ph.D.

M.S., Biostatistics, University of Pennsylvania, 2017.

Thesis: *Prediction of Cardiac Morbidity using Electrocardiographic Parameters*

B.A., Mathematics and Economics, Swarthmore College, 2015.

Manuscripts

Publications

Votruba SB, Shaw PA, **Oh EJ**, Venti CA, Bonfiglio S, Krakoff J, O'Brien DM. Associations of Plasma, Red Blood Cell, and Hair Carbon and Nitrogen Isotope Ratios with Fish, Meat, and Sugar Sweetened Beverage Intake with a 12-week Inpatient Feeding Study. *The American Journal of Clinical Nutrition*, 2019. <https://doi.org/10.1093/ajcn/nqz208>

Johnson J, Votruba SB, Krakoff J, Shaw PA, **Oh EJ**, Wooller M, O'Brien DM. Amino Acid Carbon Stable Isotope Ratios Indicate Sugar Sweetened Beverage and Meat Exposure in a Clinical Feeding Study. (P18-125-19), *Current Developments in Nutrition*, Volume 3, Issue Supplement 1, June 2019, nzz039. <https://doi.org/10.1093/cdn/nzz039.P18-125-19>

Oh EJ, Shepherd BE, Lumley T, Shaw PA. Considerations for analysis of time to event outcomes measured with error: Bias and Correction with SIMEX. *Statistics in Medicine*, 2018; 37: 1276–1289. <https://doi.org/10.1002/sim.7554>

Schapira MM, Imbert D, **Oh EJ**, Byhoff E, Shea JA. Public Engagement with Scientific Evidence in Health: A Qualitative Study among Primary-Care Patients in an Urban Population. *Public Understanding of Science*, 2016; 25(5), 612–626. <https://doi.org/10.1177/0963662514560489>

Papers in Preparation

Oh EJ, Shepherd BE, Lumley T, Shaw PA. Raking and Regression Calibration: Methods to Address Bias from Correlated Covariate and Time-to-Event Error. *Submitted for publication*. [arxiv.org:1905.08330](https://arxiv.org/abs/1905.08330)

Deo R*, **Oh EJ***, Soliman EZ, Cohen DL, Dobre M, Kansal M, Lash JP, Townsend RR, Fink JC, Rahman M, Sharma K, Feldman HI, Guo W, Yang W. “Extracting Automatic Twelve Lead ECG Output and the Prediction of Cardiovascular Death: Findings from the Chronic Renal Insufficiency Cohort Study”. *Submitted for publication*. * co-first author.

Oh EJ, Johnson J, Wooller M, O’Brien DM, Shaw PA. “Mixed Effects Model Calibration of Carbon Isotope Ratios to Correct for Batch Effects”. *In preparation*.

Oh EJ, Shepherd BE, Lumley T, Shaw PA. “Optimal Retrospective Sampling Designs under Correlated Covariate and Time-to-Event Error”. *In preparation*.

Projects	<p>Counterfactual Recidivism Risk Assessments: Considers the use of recidivism risk assessments derived from machine learning algorithms as decision-support tools.</p> <p>Philadelphia Neighborhood Incarceration: Investigation of incarceration across Philadelphia zip codes. Utilizes Bayesian spatial model to model spatially correlated trends.</p>	
Software	<p>RRCME: R package that implements generalized raking and regression calibration methods to correct bias under correlated time-to-event and covariate error settings.</p> <p>SimexSurvOutcome: R package that implements the SIMEX algorithm that corrects bias under time-to-event error settings.</p>	
Experience	Philadelphia Neighborhood Incarceration Project <i>Statistical Consultant</i>	January 2019 - Present
	University of Pennsylvania <i>Research Assistant</i>	June 2017 - Present
	Chronic Renal Insufficiency Cohort <i>Research Assistant</i>	July 2017 - Present

Presentations *Platform*

“Comparison of Sampling Designs for the Selection of a Validation Subset to Address Correlated Covariate and Failure-Time Outcome Error”. *Contributed talk*. Joint Statistical Meetings, 2019, Denver, CO.

“Raking and Regression Calibration: Methods to Address Bias from Correlated Covariate and Time-to-Event Error”. *Invited talk*. Annual meeting of the Eastern North American Region of the International Biometric Society, 2019, Philadelphia, PA.

“Raking and Regression Calibration: Methods to Address Bias from Correlated Covariate and Time-to-Event Error.” *Speed talk*. Joint Statistical Meetings, 2018, Vancouver, BC.

“Considerations for Analysis of Time-to-Event Outcomes Measured with Error: Bias and Correction with SIMEX”. *Contributed talk*. Annual meeting of the Eastern North American Region of the International Biometric Society, 2017, Washington, D.C.

“Considerations for Analysis of Time-to-Event Outcomes Measured with Error”. *Contributed talk*. Joint Statistical Meetings, 2016, Chicago, IL.

Poster

“Raking and Regression Calibration: Methods to Address Bias from Correlated Covariate and Time-to-Event Error”. Statistical Challenges and Opportunities in HIV/AIDS Research in the Era of Getting-to-Zero HIV Infections, 2019, Philadelphia, PA.

“Raking and Regression Calibration: Methods to Address Bias from Correlated Covariate and Time-to-Event Error”. Joint Statistical Meetings, 2018, Vancouver, BC.

Teaching *Teaching assistant*

Statistical Inference I (2016, 2017). Department of Biostatistics, University of Pennsylvania.

Mathematical Statistics II (2014). Department of Mathematics and Statistics, Swarthmore College.

Mathematical Statistics I (2013). Department of Mathematics and Statistics,
Swarthmore College.

Scientific	Eastern North American Region of the International Biometric Society (2016)
Memberships	American Statistical Association (2015)

Service	<i>Reviewer</i>
	The American Statistician