

Aaron Wolfe Scheffler

Curriculum Vitae

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CONTACT INFORMATION

Department of Biostatistics
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EDUCATION

2015-present Ph.D. (expected 6/2019), Biostatistics, University of California, Los Angeles
Advisor: Dr. Damla Şentürk
Dissertation: Modeling Region-Referenced Longitudinal Functional EEG Data
Research Interests: Functional Data Analysis, Penalized Regression, Optimization

2013-2015 M.S., Biostatistics, University of California, Los Angeles

2007-2011 B.A., Biochemistry, Columbia University, New York

RESEARCH EXPERIENCE

2015-present Graduate Student Researcher, Department of Biostatistics, UCLA

2017-present Statistical Consultant, MiraDx, Los Angeles, CA

2014-2016 Graduate Student Researcher, Semel Institute, UCLA

2011-2013 Researcher, Healthy Communities Institute, Berkeley, CA

HONORS AND AWARDS

2018 Dissertation Year Fellowship, Graduate Division, UCLA (\$35,000)

2017 Graduate Research Mentorship, Graduate Division, UCLA (\$35,000)

2016 Best Student Paper, Western North American Region of the Int'l. Biometric Society (\$500)

2016 Graduate Summer Research Mentorship, Graduate Division, UCLA (\$6,000)

RESEARCH PUBLICATIONS

Published and submitted

1. **Scheffler, A.**, Telesca, D., Sugar, C., Jeste, S., Dickinson, A., DiStefano, C., Şentürk, D. (2018). Covariate-adjusted region-referenced generalized functional linear model for EEG data. *Statistics in Medicine*. (in submission)
2. **Scheffler, A.**, Telesca, D., Li, Q., Sugar, C., DiStefano, C., Jeste, S., Şentürk, D. (2018). Hybrid principal components analysis for region-referenced longitudinal functional EEG data. *Biostatistics* **00**(00), 1-19.
3. Dickinson, A., DiStefano, C., **Scheffler, A.**, Şentürk, D., Jeste, S. (2018). Interhemispheric alpha-band hypoconnectivity in children with Autism Spectrum Disorder. *Behavioral Brain Research* **348**, 227-234.
4. Rotheram-Borus, E.J., Tomlinson, M., **Scheffler, A.**, Weichle, T.W., Hayati Rezvan, P., Comulada W.S., Rotheram-Borus, M.J. (2018). Maternal patterns of antenatal and postnatal

depressed mood and the impact on child health at 3-years postpartum. *Journal of Consulting and Clinical Psychology* **86**(3), 218-230.

5. **Scheffler, A.***, Hasenstab, K.*, Telesca, D., Sugar, C., Jeste, S., DiStefano, C., Şentürk, D. (2017). A multi-dimensional functional principal components analysis of EEG data. *Biometrics* **73**(3), 999-1009. (*Authors contributed equally)

6. Rotheram-Borus, M.J., Tomlinson, M., **Scheffler, A.**, Harris, D., Nelson, S. (2017). Adjustment of a population of South African children of mothers living with and without HIV through three years post-birth. *AIDS and Behavior* **21**(6), 1601-1610.

7. Arnold, E.M., Desmond, K.A., Rotheram-Borus, M.J., **Scheffler, A.**, Comulada, W.S., Johnson, M.O., Kelly, J.A. (2017). Drug use and emotional distress differentiate unstably-versus stably-housed adults living with HIV who engage in unprotected sex. *Journal of Health Psychology* **22**(3), 302-313.

8. Tomlinson, M., Rotheram-Borus, M.J., le Roux, I., Youssef, M., Neslon, S., **Scheffler, A.**, Weiss, R., O'Connor, M., Worthman, C. (2016). Thirty-six month outcomes of a generalist paraprofessional perinatal home visiting intervention in South Africa on maternal health and child health and development. *Prevention Science* **17**(8), 937-948.

9. Swendeman, D., Ramanathan, N., Baetscher, L., Medich, M., **Scheffler, A.**, Comulada, W.S., Estrin, D. (2015). Smartphone self-monitoring to support self-management among people living with HIV: Perceived benefits and theory of change from a mixed-methods, randomized pilot study. *Journal of Acquired Immune Deficiency Syndrome* **69**(0 1), S90-S91.

10. Rotheram-Borus, M.J., Tomlinson, M., **Scheffler, A.**, le Roux, I. (2015). Re-engagement in HIV care among mothers living with HIV in South Africa over 36 Months post-birth. *AIDS* **29**(17), 2361-2362.

In preparation

1. **Scheffler, A.**, Jeste, S., Dickinson, A., DiStefano, C., Şentürk, D. (2018). Covariate-adjusted hybrid principal components analysis for region-referenced functional EEG data.

2. Naples, A., Webb, S., **Scheffler, A.**, Şentürk, D., Levine, A. (2018). A repeatability analysis of EEG biomarkers in the Autism Biomarker Consortium trial.

3. Dickinson, A., DiStefano, C., Tran, X., **Scheffler, A.**, Şentürk, D., Jeste, S. (2018). Inter-hemispheric oscillatory connectivity in infants with Autism Spectrum Disorder.

4. Weidhaas, J., **Scheffler, A.**, Telesca, D. (2018). Germline microRNA signatures predict toxicity in response to immunotherapy in a mixed cancer cohort.

5. Şentürk D. and **Scheffler, A.** (2018). Modeling longitudinal trends in Event Related Potentials (ERPs). (book chapter)

PRESENTATIONS

1. **Scheffler, A.**, Telesca, D., Sugar, C., Jeste, S., Dickinson, A., DiStefano, C., Şentürk, D. (3/2019). Covariate-adjusted region-referenced generalized functional linear model for EEG Data. Paper to be presented at the Eastern North American Region of the International Biometric Society Meeting, Philadelphia, PA.
2. **Scheffler, A.**, Telesca, D., Li, Q., Sugar, C., DiStefano, C., Jeste, S., Şentürk, D. (6/2018). Hybrid principal components analysis for region-referenced longitudinal functional EEG data. Paper presented at the International Biometric Society Meeting, Barcelona, Spain.
3. **Scheffler, A.**, Telesca, D., Li, Q., Sugar, C., DiStefano, C., Jeste, S., Şentürk, D. (3/2018). Hybrid principal components analysis for region-referenced longitudinal functional EEG data. Poster presented at the Eastern North American Region of the International Biometric Society Meeting, Atlanta, GA.
4. **Scheffler, A.**, Telesca, D., Li, Q., Sugar, C., DiStefano, C., Jeste, S., Şentürk, D. (6/2017). Hybrid principal components analysis for region-referenced longitudinal functional EEG data. Paper presented at the Western North American Region of the International Biometric Society Meeting, Santa Fe, NM.
5. **Scheffler, A.**, Hasenstab, K., Telesca, D., Sugar, C., Jeste, S., DiStefano, C., Şentürk, D. (7/2016). A multi-dimensional functional principal components analysis of EEG data. Paper presented at the Western North American Region of the International Biometric Society Meeting, Victoria, BC.

PROFESSIONAL AFFILIATIONS

2016-present Member, Western North American Region of the International Biometric Society
2015-present Member, American Statistical Association

REVIEWER

Annals of Applied Statistics
Biometrics

ACADEMIC SERVICE

2018-present Mentor, Fielding School of Public Health Mentorship Program, UCLA
2017-present Student Representative, Department of Biostatistics, UCLA
2017-present President, Biostatistics Student Association, UCLA
2014-2015 VP of Finance, Fielding School of Public Health Student Association, UCLA