

# Aaron Wolfe Scheffler

*Curriculum Vitae*

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## CONTACT INFORMATION

Department of Epidemiology & Biostatistics  
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## EDUCATION

2015-2019      Ph.D., 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

## EMPLOYMENT

2019-present    Assistant Professor, Department of Epidemiology & Biostatistics, UCSF

2015-2019      Graduate Student Researcher, Department of Biostatistics, UCLA

2014-2016      Graduate Student Researcher, Semel Institute, UCLA

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

## HONORS AND AWARDS

2019             Carolbeth Korn Award for most outstanding graduating student of the Fielding School of Public Health, UCLA (\$10,000)

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. Weidhaas, J., **Scheffler, A.**, Kalbasi, A., Salzman, D., Wilenius, K., Rietdorf, E., Heilig, M., Pitka, M., Desler, C., Ruan, D., Drakaki, A., Scholz, M., Telesca, D. (2018). Germ-line mutations in microRNA-pathways predict immune associated toxicity to anti-PD1/PDL1 therapy. (under review)
2. **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. (under review)
3. **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.

4. 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.
5. 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.
6. **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) \*\*\***WNAR Best Student Paper 2016**\*\*\*
7. 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.
8. 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.
9. 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.
10. 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.
11. 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. 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 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*  
*Statistics in Medicine*  
*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