

Aaron Scheffler

Curriculum Vitae

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CONTACT INFORMATION

Department of Biostatistics
Fielding School of Public Health
University of California, Los Angeles
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EDUCATION

PhD (expected 2019), Biostatistics, University of California, Los Angeles
Dissertation: Modeling Region-Referenced Longitudinal Functional Data
Adviser: Damla Şentürk
MS (2015), Biostatistics, University of California, Los Angeles
BA (2011), Biochemistry, Columbia University, New York

EMPLOYMENT

Graduate Student Researcher
Statistical Consultant
Graduate Student Researcher
Researcher

Department of Biostatistics, UCLA, *2015-present*
MiraDx, Los Angeles, CA, *2017-present*
Semel Institute, UCLA, *2014-2016*
Healthy Communities Institute, Berkeley, CA, *2011-2013*

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 Meeting (\$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. (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. (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. (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. (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. (2016). *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

Member, The Western North American Region of the International Biometric Society, *2016-present*

Member, American Statistical Association, *2015-present*

REVIEWER

Annals of Applied Statistics

Biometrics

SERVICE

Mentor, Fielding School of Public Health Mentorship Program, UCLA, *2018-present*

Student Representative, Department of Biostatistics, UCLA, *2017-present*

President, Biostatistics Student Association, UCLA, *2017-present*

VP of Finance, Fielding School of Public Health Student Association, UCLA, *2014-2015*