

# Aaron Scheffler

*Curriculum Vitae*

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## CONTACT INFORMATION

Department of Biostatistics  
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## EDUCATION

PhD (expected 2019), Biostatistics, University of California, Los Angeles

*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)

## 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*

## 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 hyperconnectivity 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 differentiatble 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. ABC project (need information on individuals)
3. Dickinson, A., DiStefano, C., Tran, X., **Scheffler, A.**, Şentürk, D., Jeste, S. Interhemispheric oscillatory connectivity in infants with Autism Spectrum Disorder.
4. Weidhaas, J., **Scheffler, A.**, Telesca, D. Germline microRNA signatures predict toxicity in response to immunotherapy in a mixed cancer cohort.
5. Şentürk D. and **Scheffler, A.** 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.

## 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*