

AARON WOLFE SCHEFFLER

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Education

2019	Biostatistics, University of California, Los Angeles	Ph.D.
2015	Biostatistics, University of California, Los Angeles	M.S.
2011	Biochemistry, Columbia University	B.A.

Employment

Current

2019-present	Faculty Member, Bakar Computational Health Sciences Institute, UCSF
2019-present	Faculty Member, Center of Intelligent Imaging, UCSF
2019-present	Assistant Professor, Department of Epidemiology & Biostatistics, UCSF

Previous

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

Research Interests

Functional Data Analysis; Bayesian Data Analysis; High-Dimensional Structured Data

Publications

- [1] Bach, A. M., Fang, A. Y., Bonifacio, S., Rogers, E. E., Scheffler, A., Partridge, J. C., ... Glass, H. C. et al. (2021). "Early magnetic resonance imaging predicts 30-month outcomes after therapeutic hypothermia for neonatal encephalopathy." *The Journal of Pediatrics*.
- [2] Tran, X. A., McDonald, N., Dickinson, A., Scheffler, A., Frohlich, J., Marin, A., ... Dapretto, M. et al. (2021). "Functional connectivity during language processing in 3-month-old infants at familial risk for autism spectrum disorder." *European Journal of Neuroscience*, 53(5), 1621–1637.
- [3] Levin, A. R., Naples, A. J., Scheffler, A. W. [Aaron Wolfe], Webb, S. J., Shic, F., Sugar, C. A., ... Dawson, G. et al. (2020). "Day-to-day test-retest reliability of eeg profiles in children with autism spectrum disorder and typical development." *Frontiers in Integrative Neuroscience*, 14, 21.
- [4] McDonald, N. M., Senturk, D., Scheffler, A., Brian, J. A., Carver, L. J., Charman, T., ... Jones, E. J. et al. (2020). "Developmental trajectories of infants with multiplex family risk for autism: A baby siblings research consortium study." *JAMA neurology*, 77(1), 73–81.
- [5] Saravanapandian, V., Frohlich, J., Hipp, J. F., Hyde, C., Scheffler, A. W., Golshani, P., ... Jeste, S. S. (2020). "Properties of beta oscillations in dup15q syndrome." *Journal of Neurodevelopmental Disorders*, 12(1), 1–15.

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- [6] Scheffler, A., Telesca, D., Li, Q., Sugar, C. A., Distefano, C., Jeste, S., & Şentürk, D. (2020). “Hybrid principal components analysis for region-referenced longitudinal functional eeg data.” *Biostatistics*, 21(1), 139–157.
- [7] Swendeman, D., Fehrenbacher, A. E., Roy, S., Ray, P., Sumstine, S., Scheffler, A., . . . Jana, S. (2020). “A pilot randomized controlled trial (rct) of daily versus weekly interactive voice response calls to support adherence among antiretroviral treatment patients in india.” *Mhealth*, 6.
- [8] Levin, A. R., Naples, A. J., Scheffler, A. W. [Aaron Wolfe], Webb, S. J., Shic, F., Sugar, C. A., . . . Dawson, G. et al. (2019). “Within visit test-retest reliability of eeg profiles in children with autism spectrum disorder and typical development.” *bioRxiv*, 834697.
- [9] Scheffler, A. W. [Aaron W], Telesca, D., Sugar, C. A., Jeste, S., Dickinson, A., DiStefano, C., & Şentürk, D. (2019). “Covariate-adjusted region-referenced generalized functional linear model for eeg data.” *Statistics in medicine*, 38(30), 5587–5602.
- [10] Dickinson, A., DiStefano, C., Lin, Y.-Y., Scheffler, A. W., Senturk, D., & Jeste, S. S. (2018). “Interhemispheric alpha-band hypoconnectivity in children with autism spectrum disorder.” *Behavioural brain research*, 348, 227–234.
- [11] Rotheram-Fuller, 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.
- [12] Arnold, E. M., Desmond, K. A., Rotheram-Borus, M. J., Scheffler, A., Comulada, W. S., Johnson, M. O., . . . Group, H. L. P. (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.
- [13] Hasenstab, K., Scheffler, A., Telesca, D., Sugar, C. A., Jeste, S., DiStefano, C., & Şentürk, D. (2017). “A multi-dimensional functional principal components analysis of eeg data.” *Biometrics*, 73(3), 999–1009.
- [14] Rotheram-Borus, M. J., Tomlinson, M., Scheffler, A., Harris, D. M., & 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.
- [15] Tomlinson, M., Rotheram-Borus, M., Scheffler, A., & Le Roux, I. (2017). “Antenatal depressed mood and child cognitive and physical growth at 18-months in south africa: A cluster randomised controlled trial of home visiting by community health workers.” *Epidemiology and psychiatric sciences*, 1–10.
- [16] Tomlinson, M. [Mark], Rotheram-Borus, M. J., Le Roux, I. M., Youssef, M., Nelson, S. H., Scheffler, A., . . . Worthman, C. M. (2016). “Thirty-six-month outcomes of a generalist para-professional perinatal home visiting intervention in south africa on maternal health and child health and development.” *Prevention Science*, 17(8), 937–948.
- [17] Rotheram-Borus, M. J., Tomlinson, M., Scheffler, A., & Le Roux, I. M. (2015). “Re-engagement in hiv care among mothers living with hiv in south africa over 36 months post-birth.” *AIDS (London, England)*, 29(17), 2361.
- [18] 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 syndromes (1999)*, 69(0 1), S80.

Presentations

Invited Presentations

- 2021 Joint Statistical Meeting, Virtual (August)
- 2020 International Conference on Information Processing and Management of Uncertainty in Knowledge-Based Systems, Virtual (June)
- 2019 International Conference on Computational and Methodological Statistics, London, UK (December)
- 2019 Department of Population Health, Langone Health, New York University (September)
- 2019 Department of Biostatistics, Mailman School of Public Health, Columbia University (September)
- 2019 Department of Epidemiology & Biostatistics, School of Medicine, University of California, San Francisco (February)
- 2019 Department of Biostatistics, College of Global Public Health, New York University (February)
- 2019 Department of Biostatistics, Rollins School of Public Health, Emory University (February)
- 2019 Department of Biostatistics, School of Medicine, Vanderbilt University (January)

Contributed Presentations

- 2020 Eastern North American Region of the International Biometric Society Meeting, Virtual (March)
- 2019 Eastern North American Region of the International Biometric Society Meeting, Philadelphia, PA (March)
- 2019 International Biometric Society Meeting, Barcelona, Spain (June)
- 2018 Eastern North American Region of the International Biometric Society Meeting, Atlanta, GA (March)
- 2017 Western North American Region of the International Biometric Society Meeting, Santa Fe, NM (June)
- 2016 Western North American Region of the International Biometric Society Meeting, Victoria, BC (July)

Teaching

UCSF | School of Medicine

- 2020 - present Core Inquiry Curriculum: *Epidemiology, Biostatistics, and Population Sciences Curriculum*
EBPS comprises tools that all Domains of Understanding rely upon, allowing for the interpretation of data and for researchers and clinicians to test hypotheses of complex questions.

UCSF | Department of Epidemiology & Biostatistics

2019 - present *BIOSTAT 202: Opportunities and Challenges of Complex Biomedical Data*
This course introduces the opportunities and challenges of using biological and health-related "big data" to perform biomedical research.

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)

Professional Memberships

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

Reviewer

Human Brain Mapping
Neuroimage
American Journal of Neuroradiology
Statistics and its Interface
Statistics in Medicine
Journal of the American Statistical Association
Annals of Applied Statistics
Statistics in Medicine
Biometrics

Academic Service

2020-2021 Co-lead, Sampling Knowledge Hub, Department of Epidemiology & Biostatistics, UCSF
2018-2019 Mentor, Fielding School of Public Health Mentorship Program, UCLA
2017-2019 Student Representative, Department of Biostatistics, UCLA
2017-2019 President, Biostatistics Student Association, UCLA
2014-2015 VP of Finance, Fielding School of Public Health Student Association, UCLA