

Carly Lupton Brantner

Curriculum Vitae

Professional Data

Department of Biostatistics
Johns Hopkins Bloomberg School of Public Health
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Education

In progress	Ph.D.	Biostatistics Johns Hopkins Bloomberg School of Public Health Advisor: Dr. Elizabeth A. Stuart
2020	M.S.	Applied Mathematics and Statistics Johns Hopkins University
2020	B.S.	Applied Mathematics and Statistics, Psychological and Brain Sciences Johns Hopkins University

Professional Experience

2023	Data Science Intern , Mathematica
2019 – present	Research Assistant , Johns Hopkins Bloomberg School of Public Health Advisor: Dr. Elizabeth A. Stuart
2020 – present	Epidemiology and Biostatistics of Aging Training Grant Trainee , Johns Hopkins Bloomberg School of Public Health PI: Dr. Karen Bandeen-Roche
2021 – present	Teaching Assistant , Johns Hopkins Bloomberg School of Public Health
2019	CIPhER Intern in Education Research and Assessment , UNC Eshelman School of Pharmacy
2018 – 2020	Course Assistant , Center for Leadership Education at Johns Hopkins University
2018	Student Researcher , Summer Institute in Biostatistics (SIBS) at North Carolina State University
2017	Applied Statistics Intern , UNC Eshelman School of Pharmacy

Leadership Experience

2023 – present	Council of Emerging and New Statisticians Member , Eastern North American Region (ENAR) of International Biometrics Society
2022 – present	Co-President of Biostatistics Student Organization , Johns Hopkins Bloomberg School of Public Health
2021 – present	Mental Health Graduate Network Representative , Johns Hopkins University
2020 – present	Biostatistics Student Organization Mentoring Committee and Curriculum Committee Member , Johns Hopkins Bloomberg School of Public Health
2019	Varsity Women's Soccer Captain , Johns Hopkins University
2019	Assistant New Member Director , Phi Mu Gamma Tau Chapter
2019 – 2020	Blue Jays LEAD Captains Cohort Member , Johns Hopkins University

Honors and Awards

1. **Gertrude M. Cox Scholarship Honorable Mention**, American Statistical Association, 2023
2. **Jane and Steve Dykacz Award** for an outstanding paper in medical statistics, Johns Hopkins Department of Biostatistics, 2023
3. **Epidemiology and Biostatistics of Aging Training Grant Recipient**, Johns Hopkins University, 2020-present
4. **Dean's List**, Johns Hopkins University, 2016-2020
5. **Phi Beta Kappa**, Johns Hopkins University, 2020
6. **Applied Mathematics and Statistics Achievement Award**, Johns Hopkins University, 2020
7. **Applied Mathematics and Statistics Prize for Outstanding Master's Research**, Johns Hopkins University, 2020
8. **Applied Mathematics and Statistics Mathematical Modeling Competition Prize**, Johns Hopkins University, 2020
9. **Naddor Prize**, Johns Hopkins University Department of Applied Mathematics and Statistics, 2019
10. **Centennial Conference Women's Soccer Scholar-Athlete of the Year**, Johns Hopkins Women's Soccer, 2019
11. **CoSIDA Third Team Academic All-American**, Johns Hopkins Women's Soccer, 2019

12. **CoSIDA Academic All-District Team**, Johns Hopkins Women's Soccer, 2019
13. **Chi Alpha Sigma**, Scholar Athlete Honor Society, Johns Hopkins University, 2019
14. **Centennial Conference Women's Soccer All-Conference Honorable Mention Team**, Johns Hopkins Women's Soccer, 2019

Publications

Peer-Reviewed Articles

1. **Brantner, C. L.**, Chang, T., Nguyen, T. Q., Hong, H., Di Stefano, L., & Stuart, E. A. (2023). Methods for integrating trials and non-experimental data to examine treatment effect heterogeneity. *Statistical Science*. In press.
2. Ettman, C. K., **Brantner, C. L.**, Albert, M., Goes, F., Mojtabai, R., Spivak, S., Stuart, E. A., & Zandi, P. P. Trends in telehealth and in-person psychiatric care from 2017-2022 among patients with depression in a large US academic medical system. *Psychiatric Services*. In press.
3. Olsen, A. A., **Brantner, C. L.**, Dallaghan, G. L. B., & McLaughlin, J. E. (2023). A review of interprofessional education research: Disciplines, authorship practices, research design, and dissemination trends. *Journal of Interprofessional Education & Practice*. doi:10.1016/j.xjep.2023.100653
4. **Lupton-Smith, C.**, Badillo-Goicoechea, E., Collins, M., Lessler, J., Grabowski, M. K., & Stuart, E. A. (2022). Consistency between household and county measures of onsite schooling during the COVID-19 pandemic. *Journal of Research on Educational Effectiveness*. doi:10.1080/19345747.2022.2131660
5. McLaughlin, J. E., Lyons, K., **Lupton-Smith, C.**, & Fuller, K. (2022). An introduction to text analytics for educators. *Currents in Pharmacy Teaching and Learning*. doi:10.1016/j.cptl.2022.09.005
6. **Lupton-Smith, C.**, Badillo-Goicoechea, E., Chang, T., Maniates, H., Riehm, K. E., Schmid, I., & Stuart, E. A. (2022). Factors associated with county-level mental health during the COVID-19 pandemic. *Journal of Community Psychology*, 50(5), 2431-2442. doi:10.1002/jcop.22785
7. Riehm, K. E., Badillo-Goicoechea, E., Wang, F. M., Kim, E., Aldridge, L. R., **Lupton-Smith, C.**, Presskreischer, R., Chang, T., LaRocca, S., Kreuter, F., & Stuart, E. A. (2022). Association of Non-Pharmaceutical Interventions with Anxiety and Depressive Symptoms during the COVID-19 Pandemic: A Multi-National Study of 43 Countries. *International Journal of Public Health*, 67, 1604430. doi:10.3389/ijph.2022.1604430
8. Lessler, J., Grabowski, M. K., Grantz, K. H., Badillo-Goicoechea, E., Metcalf, C. J. E., **Lupton-Smith, C.**, Azman, A. S., Stuart, E. A. (2021). Household COVID-19 risk and in-person schooling. *Science*, 372(6546), 1092-1097. doi:10.1126/science.abh2939
9. **Lupton-Smith, C.**, Stuart, E., McGinty, B., Dalcin, A., Jerome, G. J., Wang, N. Y., & Daumit, G. (2021). Determining predictors of weight loss in a behavioral intervention:

A case study in the use of Lasso regression. *Frontiers in Psychiatry*, 12, 707707. doi:10.3389/fpsy.2021.707707

10. Olsen, A., **Lupton-Smith, C.**, Rodgers, P., & McLaughlin, J. E. (2021). Characterizing research about interprofessional education within pharmacy. *American Journal of Pharmaceutical Education*, 85(8), 8541. doi:10.5688/ajpe8541.
11. Wolcott, M. D., **Lupton-Smith, C.**, Cox, W. C., & McLaughlin, J. E. (2019). A 5-minute Situational Judgment Test to assess empathy in first-year student pharmacists. *American Journal of Pharmaceutical Education*, 83(6), Article 6960. doi:10.5688/ajpe6960
12. McLaughlin, J. E., **Lupton-Smith, C.**, & Wolcott, M. D. (2018). Text mining as a method for examining the alignment between educational outcomes and the workforce needs. *Education in the Health Professions*, 1(2), 55-60. doi:10.4103/EHP.EHP_25_18

In Progress/Under Review

1. **Brantner, C. L.**, Nguyen, T. Q., Tang, T., Zhao, C., Hong, H., & Stuart, E. A. Comparing machine learning methods for estimating heterogeneous treatment effects by combining data from multiple randomized controlled trials. Under review.

Presentations

Presentations at Scientific Meetings

1. **Brantner, C. L.** March 22, 2023. Combining Datasets to Estimate Heterogeneous Treatment Effects. Eastern North American Region (ENAR) International Biometrics Society.
2. **Brantner, C. L.** December 18, 2022. Combining Datasets to Estimate Heterogeneous Treatment Effects. International Conference of the ERCIM WG on Computational and Methodological Statistics (CMStatistics 2022).
3. **Lupton-Smith, C.** January 24, 2022. Family Caregiving Subtypes and Well-Being in the Caregiving Transitions Study: A Latent Class Analysis. Research in Progress presentation for Epidemiology and Biostatistics of Aging Training Group.
4. **Lupton-Smith, C.** October 8, 2021. Factors Associated with County-Level Mental Health During the COVID-19 Pandemic. Invited presentation for Hopkins Biostatistics Virtual Prospective Student Event.
5. **Lupton-Smith, C.**, Badillo Goicoechea, E., Chang, T., & Stuart, E. A. October 7, 2021. Factors Associated with County-Level Mental Health During the COVID-19 Pandemic. Women in Statistics and Data Science Conference.

Posters

1. **Brantner, C. L.** (2023). Combining datasets to estimate heterogeneous treatment effects. *American Causal Inference Conference*.

2. Ettman, C. K., **Brantner, C. L.**, Albert, M., et al. (2023). Trends in telehealth and in-person psychiatric care from 2017-2022 among patients with depression in a large US academic medical system. *Society for Epidemiologic Research*.
3. Ettman, C. K., **Brantner, C. L.**, Albert, M., et al. (2023). Trends in telehealth and in-person psychiatric care from 2017-2022 among patients with depression in a large US academic medical system. *AcademyHealth*.
4. Ettman, C. K., **Brantner, C. L.**, Albert, M., et al. (2023). Trends in telehealth and in-person psychiatric care from 2017-2022 among patients with depression in a large US academic medical system. *International Association for Population Health Sciences*.
5. Bentley, J., **Lupton-Smith, C.**, & Roth, D. (2021). Family caregiving subtypes in the Caregiving Transitions Study: A latent class analysis. *Gerontological Society of America*.
6. Chang, T., **Lupton-Smith, C.**, Badillo Goicoechea, E., & Stuart, E. A. (2021). Examining county-level mental health using Facebook COVID-19 Symptom Survey data. *American Psychopathological Association*.
7. McLaughlin, J. E., **Lupton-Smith, C.**, Bell, E. L., Hubal, R., Persky, A. (2020). Automated analysis of course evaluation comments: The use of sentiment analysis to characterize classroom teaching. *American Association of Colleges of Pharmacy*.
***Recipient of AACP SAS Best Poster Award**

Podcasts

1. School Reopening Analysis. Data Skeptic. May 30, 2022.
<https://dataskeptic.com/blog/episodes/2022/school-reopening-analysis>.

Teaching Experience

Lead Teaching Assistant, Johns Hopkins Bloomberg School of Public Health

1. Statistical Methods in Public Health I Fall 2022
 Instructors: Dr. Marie Diener-West and Dr. Karen Bandeen-Roche

Teaching Assistant, Johns Hopkins Bloomberg School of Public Health

1. Causal Inference in Medicine and Public Health I Spring 2022 & 2023
 Instructor: Dr. Elizabeth Stuart
2. Statistical Methods in Public Health I, II Fall 2021
 Instructors: Dr. Marie Diener-West and Dr. Karen Bandeen-Roche

Course Assistant, Johns Hopkins University

1. Leading Teams Fall 2018 – Spring 2020
 Instructor: Dr. William Smedick

Skills

Programming: R, SAS, MPlus, Python, MATLAB, Stata, SPSS, SQL, Git

Other: Machine learning, data integration, multiple imputation, nonparametric statistics, propensity score estimation, variable selection, regression, latent class analysis, electronic health records, text mining, sentiment analysis, social network analysis, Bayesian statistics