

# Carly Lupton Brantner

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## Education

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

## Professional Experience

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

## Leadership Experience

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

## Honors and Awards

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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, 2020-2023
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

## Publications

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### 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. (2023). 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.
2. **Brantner, C. L.** Bentley, J. L., & Roth, D. L. Subtypes of transitions into a family caregiving role: A latent class analysis. Under review.
3. **Brantner, C. L.**, Nguyen, T. Q., & Stuart, E. A. Combining trials to estimate heterogeneous treatment effects in a target sample. In progress.
4. Ettman, C. E., **Brantner, C. L.**, Ringlein, G., & Zandi, P. Trends in continuous treatment of mental health before and during the COVID-19 pandemic among patients with depression. In progress.

## Presentations

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#### Presentations at Scientific Meetings

1. **Brantner, C. L.** March 10, 2024 (accepted). Combining trials to estimate heterogeneous treatment effects in a target sample. Eastern North American Region (ENAR) International Biometrics Society. *Part of invited session (organizer: **Brantner, C. L.**): Integrating Data from Multiple Sources to Estimate Causal Effects.*
2. **Brantner, C. L.** March 22, 2023. Combining datasets to estimate heterogeneous treatment effects. Eastern North American Region (ENAR) International Biometrics Society.
3. **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).
4. **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.
5. **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.

6. **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. **Brantner, C. L.** May 30, 2022. School Reopening Analysis. Data Skeptic.  
<https://dataskeptic.com/blog/episodes/2022/school-reopening-analysis>.

#### Teaching Experience

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##### **Lead Teaching Assistant**, Johns Hopkins Bloomberg School of Public Health

1. Statistical Methods in Public Health I, II Fall 2022 & 2023  
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

Instructor: Dr. William Smedick

Fall 2018 – Spring 2020

## **Skills**

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

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