Derick S. Baum

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CURRENT POSITION

Brown University   Providence, RI
Postdoctoral Research Associate in Sociology (Quantitative Research Methods Fellowship)   2024-present

EDUCATION

Harvard University   Cambridge, MA
Ph.D. in Sociology (Presidential Scholar)   2018-2024
    Dissertation: "Developments in Aggregate Relational Data"
    Committee: Alexandra Killewald, Peter V. Marsden (Chair), Xiang Zhou

A.M. in Sociology   2018-2021

University of California, Santa Barbara   Santa Barbara, CA
B.A. in Sociology and Mathematics (*Summa Cum Laude* and Phi Beta Kappa)   2013-2017

RESEARCH AND TEACHING INTERESTS

Quantitative and computational methods, social network analysis, Bayesian inference, causal inference, survey methods, social capital

PEER-REVIEWED ARTICLES AND BOOK CHAPTERS

Marsden, Peter V., and **Derick S. Baum**. 2024. "Occupational Selection and the Reliability of Position Generator Measures of Social Capital." *Social Networks* 79:34–47. https://doi.org/10.1016/j.socnet.2024.05.001.

Baum, Derick S., and Peter V. Marsden. 2023. "Uses and Limitations of Dichotomous Aggregate Relational Data." *Social Networks* 74:42–61. https://doi.org/10.1016/j.socnet.2023.02.001.

    Winner of the 2023 Best Student Paper Award from the International Network for Social Network Analysis

Baum, Derick S., and Xiang Zhou. 2022. "rbw: An R Package for Constructing Residual Balancing Weights." *The R Journal* 14(3):174–92. https://doi.org/10.32614/RJ-2022-049.

Marsden, Peter V., Maleah Fekete, and **Derick S. Baum**. 2021. "Egocentric Network Studies within the General Social Survey: Measurement Methods, Substantive Findings, and Methodological Research." Pp. 519–52 in *Personal Networks: Classic Readings and New Directions in Egocentric Analysis*, edited by B. Pescosolido, B. L. Perry, E. B. Smith, and M. L. Small. Cambridge: Cambridge University Press. https://doi.org/10.1017/9781108878296.038.

WORKING PAPERS (DRAFTS AVAILABLE UPON REQUEST)

Baum, Derick S. "Novel Insights into the Properties of Models for Analyzing Aggregate Relational Data."

Baum, Derick S. "Assessing the Goodness of Fit of Models for Analyzing Aggregate Relational Data."

Baum, Derick S. "The Reliability of Items and Measures for Aggregate Relational Data."

Baum, Derick S., and Xiang Zhou. "Explaining Disparities at Quantiles: An Augmented Kitagawa-Oaxaca-Blinder Decomposition."

SOFTWARE

Zhou, Xiang, and **Derick S. Baum**. "rbw: Residual Balancing Weights for Marginal Structural Models." https://cran.r-project.org/web/packages/rbw/index.html

Bojanowski, Michał, and **Derick S. Baum**. "stansum: Bayesian Models for Aggregated Relational Data." https://github.com/coalesce-lab/stansum

TEACHING

Teaching Fellow, Harvard University

SOCIOL 1156: Statistics for Social Sciences (Undergraduate)	Spring 2023
SOCIOL 2275: Social Network Analysis (Graduate)	Fall 2022
PSY 1900: Introduction to Statistics for the Behavioral Sciences (Undergraduate)	Spring 2022
SOCIOL 2245: Causal Inference for the Social Sciences (Graduate)	Spring 2021
SOCIOL 2202: Intermediate Quantitative Research Methods (Graduate)	Fall 2021, Fall 2020

AWARDS AND ACCOMPLISHMENTS

Harvard Griffin Graduate School of Arts and Sciences Dissertation Completion Fellowship	2023-2024
Harvard Griffin Graduate School of Arts and Sciences Professional Development Fund	2023
Best Student Paper Award from the International Network for Social Network Analysis	2023
Presidential Scholar in the Harvard Griffin Graduate School of Arts and Sciences	2018-2024

Award conferred to a small group of top prospective Ph.D. students in the humanities and social sciences. Awardees receive additional financial support in years one, two, and the dissertation completion year.

Certification of Distinction in Teaching from the Derek Bok Center for Teaching and Learning at Harvard University   Spring 2021, Spring 2022, Fall 2022, and Spring 2023

Academic Excellence Award from the UCSB Honors Program	2017
Best Undergraduate Paper in Sociology from the UCSB Sociology Department	2017
Distinction *of Summa Cum Laude* from the UCSB Sociology Department	2017

CONFERENCES

Derick S. Baum. 2021. "Uses and Limitations of Dichotomous Aggregated Relational Data for Estimating Personal Network Size."

3rd North American Social Networks Conference (NASN), held remotely due to COVID-19.

SERVICES

External Consultant**,** PATCHWORK Project at the Autonomous University of Barcelona   2023-present

> Consulted on questionnaire design for a European Union-funded project investigating social integration in five European countries through cross-national surveys.

Member of the Best Student Paper Award Committee, International Network for Social Network Analysis   2024

Peer Mentor, Summer Research Opportunities at Harvard   2022-2023

> Mentored college students from underrepresented backgrounds interested in pursuing doctoral studies in the humanities and social sciences.

Ad Hoc Reviewer

> *Demography*, *Social Networks*

ORGANIZATIONS

American Sociological Association   2023-present
    Member, Section on Mathematical Sociology

International Network for Social Network Analysis   2023-present

The Institute for Quantitative Social Science at Harvard   2021-2024
    Graduate Student Affiliate

UCSB Honors Program   2014-2017

SOFTWARE

R, Stan, LaTeX, Stata, Qualtrics

LANGUAGES

English (fluent), Portuguese (native)

REFERENCES

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