

Emma Klugman

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Education

- 2024 PhD, Harvard University, Cambridge, MA.
Major: Education Policy and Program Evaluation
Minor: Data Science
Dissertation: [Essays on Statistics and Data Science Education](#)
- 2020 MA, Harvard University, Cambridge, MA.
Major: Education
- 2018 BA, Harvard College, Cambridge, MA.
Major: Statistics
Minor: Computer Science

Teaching

- 2024 Instructor for Boston College MESA8410: Introduction to Human-Centered Data Science
- 2021-2022 Instructor on Education for HGSE A218A: Big Data, Surveillance, Algorithmic Bias, and Ethics in Education Data Science, an original course
- 2022-2023 Teaching Fellow for Harvard Math Q: Quantitative Analysis for Economics and the Social Sciences, with [Dr. Brendan Kelly](#)
- 2022 Teaching Fellow for HGSE So10B: Designing Surveys and Questionnaires: Principles and Methods, with [Dr. Joe McIntyre](#)
- 2019 & 2022 Teaching Fellow for [Harvard SEAS Applied Computation 221: Critical Thinking in Data Science](#), with [Prof. James Waldo](#) (2019) & [Prof. Michael D. Smith](#) (2022)
- 2021 Teaching Fellow for HGSE S43/Stat 151: Multilevel and Longitudinal Models, with [Prof. Luke Miratrix](#)
- 2020-2021 Course Development Fellow and Teaching Fellow for HGSE S59: Quantitative Text Analysis for Education Research, with [Prof. Sebastian Munoz-Najar Galvez](#)
- 2021 Teaching Fellow for HGSE S22: Introduction to Statistical Computing and Data Science in Education, with [Prof. Luke Miratrix](#)
- 2020 Teaching Fellow for [HGSE S61: Statistical and Psychometric Methods for Educational Measurement](#), with [Prof. Andrew Ho](#)
- 2019 Senior Teaching Fellow for [Evidence for Decisions](#), a course in the Harvard Kennedy School's Public Leadership Credential, with [Dr. Teddy Svoronos](#)
- 2018 Quantitative Reasoning Mentor at [Crimson Summer Academy](#)
- 2017 Teaching Fellow for [Harvard Stat 100: Introduction to Quantitative Methods for the Social](#)

Sciences and Humanities, with Prof. Kerrie Nelson

2016-2017 Peer Tutor for Physics and Statistics courses at [Harvard Bureau of Study Counsel](#)
2016 Mathematics/Statistics Teacher Aide at [Otumoetai College](#), Tauranga, New Zealand

Academic Publications

- 2023 **Emma M. Klugman**, Gerhard Sonnert, and Philip M. Sadler (2023). Who Takes Stats in US High Schools? Backgrounds, Interests, & Aspirations. *Proceedings of the Satellite Conference of the International Association for Statistical Education (IASE)* [Open-Access [Link](#)]
- 2023 **Emma M. Klugman** (2023). Do First Encounters Make or Break New Users? Using Text Features in the First Comment to Predict New User Return on Reddit. *The Journal of Social Media in Society*. [Open-Access [Link](#)]
- 2022 Jodi M. Gilman, Mallika T. Iyer, Emma G. Pottinger, **Emma M. Klugman**, Dylan Hughes, Kevin Potter, Brendon Tervo-Clemmens, Joshua L. Roffman, and A. Eden Evins (2022). State-Level Recreational Cannabis Legalization Is Not Differentially Associated with Cannabis Risk Perception Among Children: A Multilevel Regression Analysis. *Cannabis and Cannabinoid Research*. doi.org/10.1089/can.2022.0162
- 2021 **Emma M. Klugman**, Lily An, Zachary Himmelsbach, Sophie L. Litschwartz, and Tara P. Nicola (2021). Commentary: The Questions We *Should* Be Asking About Socially Responsible College Admission Testing. *Educational Measurement: Issues and Practice*. doi.org/10.1111/emip.12449 [Open-Access [Link](#)]
- 2020 **Emma M. Klugman** and Andrew D. Ho (2020). How Can Released State Test Items Support Interim Assessment Purposes in an Educational Crisis? *Educational Measurement: Issues and Practice*. doi.org/10.1111/emip.12390 [Open-Access [Link](#)]

Conference Participation

- 2024 Presenter of “Measuring Text: A Framework for Developing and Validating Scales for Text Analysis” in “Text & Measurement: Critical Approaches to Measuring Text & Measuring Our Field” at National Council on Measurement in Education conference: [NCME Annual Meeting](#).
- 2023 Presenter of “Who Takes Stats in US High Schools? Backgrounds, Interests, & Aspirations” at International Association for Statistical Education conference: [IASE 2023](#).
- 2022 Presenter of “An Exploration of Test Optional Policies’ Impact on International Students’ Applications” in “[Test Optional Policy: The Current Trends and Impact on Applications and Admissions](#)” at National Council on Measurement in Education conference: [NCME Annual Meeting](#).
- 2022 Invited Moderator and Chair of AERA Presidential Session “[What Happened to Diversity and Equity When Admissions Tests Became Optional](#)” at American Educational Research Association conference: [AERA Annual Meeting](#).
- 2022 Session Organizer of “[What Does A Socially Responsible Future Look Like For Admissions Testing? Vision, next steps, and a research agenda](#)” and Presenter of “The Questions We *Should* Be Asking About Socially Responsible College Admission Testing” at [NCME Annual Meeting](#)
- 2022 Presenter of “[Steal This Resource: Weekly Reflections Template to Scaffold Student Self-Efficacy](#)” at New England Community for Mathematics Inquiry in Teaching ([NE-COMMIT](#))

Fall Conference

- 2021 Presenter of “How Can Released State Test Items Support Interim Assessment Purposes in an Educational Crisis?” in “[The Impact of COVID-19 on Educational Measurement, Part 1: K-12 Assessment](#)” at [NCME Annual Meeting](#)

Research Positions

- 2022-2023 Consultant with the [National Center for the Improvement of Educational Assessment](#), carrying out data cleaning, analysis, psychometric, simulation, and reporting work for:
- “Re-evaluating the Efficiency and Efficacy of Annual Census Standardized Testing for Accountability Purposes” project, commissioned by the Gates Foundation and Walton Family Foundation
 - “Stackable Instructionally-embedded Portable Science (SIPS) Assessments Project”, for Nebraska Department of Education, funded by U.S. Department of Education
- 2021 Research and Measurement Sciences Intern with [Educational Testing Services \(ETS\)](#) in their [Summer Research and Measurement Sciences \(RMS\) Internship Program](#)
- 2019-2020 Psychometric Research Assistant with [Prof. Andrew Ho](#) on [Delawareans for Educational Opportunity v. Carney](#)
- 2018 Psychometric Research Assistant with [Prof. Andrew Ho](#), collecting state testing reliability data for [The Educational Opportunity Project at Stanford University](#)
- 2018 Research Assistant with Drs. Phil Sadler and Gerhard Sonnert, conducting literature review for NSF grant proposal in Statistics Education

Awards and Scholarships

- 2021-Present **Co-PI** for World Bank Development Impact Evaluation (DIME) Pilot Grant for project “How do youths learn justice? An exploratory grant proposal for piloting an embedded-ethics digital literacy curriculum” in Tanzania and India, \$30,000 USD. (Ongoing)
- 2021 Certificate of Distinction in Teaching for the Fall 2021 semester by the Office of Undergraduate Education

Other Experience

- 2020-2023 HGSE Academic Advisor/HGSE Guide for Ed.M. students in the [Education Policy & Analysis](#) program at Harvard Graduate School of Education
- 2020-2021 [Residential Advisor \(Proctor\)](#) and First-Year Academic Advisor at Harvard College
- 2019 Visiting Scholar in Trial Design & Evaluation at [The Behavioural Economics Team of the Australian Government](#), Department of the Prime Minister and Cabinet, Australia.
- 2018-2019 Mentor at the [Crimson Summer Academy](#)
- 2012-2013 School Governing Board Member at [Otumoetai College](#), Tauranga, New Zealand

Talks & Lectures

- 2022 “College Admission Tests and Social Responsibility.” Brown bag session for NCME Graduate Students.

- 2022 “Data Bias.” Guest lecture for Harvard Applied Computation 221: Critical Thinking in Data Science.
- 2019 [Behavioural Economics Team of Australia](#) - Technical Capability Seminar Series:
- “Programme Evaluation and Causal Inference”
 - “Missing Data Imputation”
 - “Categorical Data Techniques”
 - “De-identification and Re-identification of Sensitive Data”

Academic Service

- 2020-Present Chair, Moderator, Discussant, & Peer Reviewer for [AERA Annual Meeting](#)
- 2020-Present Peer Reviewer for [National Council on Measurement in Education \(NCME\) Conference](#)
- 2019-2020 Interview Panelist on Teaching and Mentorship for [Bluhm Family Professorship in Education and Data Sciences](#) faculty search at Harvard Graduate School of Education

Lab Affiliations

- 2020-2024 HGSE Educational Data Science Lab. PI: [Prof. Sebastian Munoz-Najar Galvez](#).
- 2018-2024 HGSE Educational Measurement Lab. PI: [Prof. Andrew Ho](#).
- 2017-2024 [Causality, Applications, and Research in Education and Statistics \(C.A.R.E.S.\) Lab](#). PI: [Prof. Luke Miratrix](#).
- 2018-2022 [Harvard Science Education Department](#) Research Posse. Co-PIs: Dr. Phil Sadler and Dr. Gerhard Sonnert.