

Daniel Katz

Graduate Student

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EDUCATION

UNIVERSITY OF CALIFORNIA, SANTA BARBARA

PhD (2021): Education - Quantitative Research Methods and Philosophy of Measurement

Thesis: Fairness and Uncertainty in Academic Testing

Advisor: Andrew Maul

M.A. (2017) Education - Quantitative Research Methods

Thesis: Validating a Multidimensional Measure of Reading Strategy Use

BA (2011), Political Science, Minor in History

RESEARCH INTERESTS

The Rasch Model

Fairness and Ethnics

Measurement Invariance

Explanatory Item Response Models

Philosophy of Measurement, Language, and Probability

Causal Inference

RELEVANT EXPERIENCE

University of Florida, Virtual Learning Lab – IES Funded Grant (2019-Present)

Supervisor: Anne Corinne Manley Role: Graduate Student Extern – IRT/Simulation focus

UCSB Center for Innovative Teaching, Research, and Learning (CITRAL) (2018-Present)

Supervisor: Linda Adler-Kassner

Role: Graduate Student Researcher in Assessment and Evaluation

New York City Department of Education: Assessment, Design, and Evaluation (Summer 2018)

Supervisor: Ronli Diakow

Role: Graduate Student Psychometrics Intern – Applying IRT and Explanatory IRT Models

California Dropout Research Project (CDRP); Get Focused Stay Focused Evaluation (2016-2019)

PI: Russell Rumberger

Role: Graduate Student Researcher

UCSB General Education Assessment Project, Office of Institutional Research (2016-2018)

PI: Linda Adler-Kassner, Co-Interim Dean of UCSB Undergraduate Education

Role: Graduate Student Researcher

PUBLISHED WORK

Arya, Diana, Clairmont, A. **Katz, D** & Maul, A. (2020) Measuring Reading Strategy Use, *Educational Assessment*, 25:1, 5-30, DOI: 10.1080/10627197.2019.1702464

Maul, A. and **Katz, D.** (2018). Internal Validity. In B. Frey (Editor), *The SAGE Encyclopedia of Educational Research, Measurement, and Evaluation*. Thousand Oaks, CA: SAGE.

Katz, D. (2017, May). An Update: The Narrowing California High School Graduation Gap between Black, Latino, and White Students. (CDRP Statistical Brief No. 24). Retrieved from http://cdrpsb.org/pubs_statbriefs.htm

Katz, D. (2017, March). The Narrowing California High School Graduation Gap between Black, Latino, and White Students. (CDRP Statistical Brief No. 23). Retrieved from http://cdrpsb.org/pubs_statbriefs.htm. The Narrowing California High School Graduation Gap between Black, Latino, and White Students

CONFERENCE PRESENTATIONS

Katz, D. and Diakow, R. (2019, April). Using Explanatory Item Response Theory Models to Re-Examine Fairness in Psychometrics. Paper to be presented at the National Council on Measurement in Education (NCME) April 4-8, 2019. Toronto.

Katz, D., Nylund-Gibson, K., Furlong, M. (2019, April). Is One Item Enough? Examining Affect-Laden Survey Items Using Mixture Modelling with Distal Outcomes. Paper presented at American Educational Research Association Annual Meeting, April 5-9, 2019. Toronto.

Best Graduate Student Paper in the AERA Survey Special Interest Group Sig

Katz, D., Clairmont, A., Arya, D., & Maul, A., (2018, April). Measuring Reading Strategy Use in a Multilingual Context. Paper presented at American Educational Research Association Annual Meeting, April 13-17, 2018. New York.

Katz, D., Clairmont, A., Arya, D. & Maul, A. (2018, April). Measuring Reading Strategy Use in a Multidimensional, Multilingual Context. Paper presented at the International Objective Measurement Workshop (IOMW), April 10-12, 2018. New York.

SELECT IN PROGRESS WORK

Clairmont, A. & Katz D. (in preperation) Using Rasch Measurement Theory for Program Evaluation: A Methods Note. To be submitted to *American Journal of Evaluation*

Katz, D., Maul A., Clairmont, A (2021) Tools from philosophy of language for increasing transparency in psychological measurement"

Reconsidering fairness in educational assessment: using tools from ethics, causal inference, and psychometrics

Measuring subjective well-being and other constructs in positive psychology using mixture modelling approaches (with an emphasis on educational settings)

TEACHING EXPERIENCE

Instructor

One Day Workshop: UCSB Methods U - An Introduction to R: Data Cleaning, Wrangling, and Visualizing Implementing Explanatory IRT via the R package, TAM

Teaching Assistant Education 214C, Linear Models for Data Analysis (and categorical data analysis), Spring 2018 Education 214B, Inferential Statistics, Winter 2018 Education 214A, Introductory Statistics, Fall 2017

ORGANIZATION & COMMITTEE MEMBERSHIPS

Graduate Student Representative – NCME Committee on informing assessment policy and practice American Educational Research Association National Council on Measurement in Education Society for the Improvement of Psychological Sciences

STATISTICAL SOFTWARE

R Commonly used stats packages: TAM, mirt, lme4, Lavaan, plm Other packages: tidyverse, Rmarkdown, xaringan Mplus Stata (Basic Knowledge)
Tableau (Basic Knowledge)
Git and Gitub (Basic Knowledge)
Stan/rstan (Beginner)
Dedoose (Beginner)