





Anthony Schmidt

Data Science & Applied Research

Curriculum Vitae

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 [acircleda](https://github.com/acircleda)

I have a passion for data analysis, statistics, and visualization. I have both graduate training and full-time work experience with applied statistics, psychometrics, and data viz. I eat, breathe, and sleep R. I am looking for an opportunity to apply these skills and push myself to learn more!

Education

2022	PhD, Educational Psychology and Research University of Tennessee, Knoxville <ul style="list-style-type: none">• Concentration: Evaluation, Statistics, and Measurement• Minor: Statistics and Data Science• Dissertation: Science Education to the Rescue? Assessing The Relationship Between Scientific Literacy and Carbon Emissions	Knoxville, TN
2011	MSEd, Language, Literacy, and Cultural Education Indiana University, Bloomington <ul style="list-style-type: none">• Concentration: TESOL	Bloomington, IN
2006	BA, Anthropology University of South Florida	Tampa, FL

Professional Appointments

2021-present	Data Scientist Amplify - Remote/Brooklyn, NY <ul style="list-style-type: none">• Won Hackathon award for developing a Shiny app to easily view daily activities of teachers on our platform• Built data pipelines and delivered first insights into usage and performance of our Amplify Math platforms• Developed functions for our internal R package to create data visualizations in line with product design guidelines• Delivered automated quarterly item analysis reports to help curriculum team spot difficult or incorrectly scored items and revise them• Participated in the development of a pilot knowledge tracing model to move forward embedded measurement efforts within our Math product
2019-2021	Data Visualization Researcher College and University Professional Association for Human Resources (CUPA-HR) - Knoxville, TN <ul style="list-style-type: none">• Develop static visualizations, web-based interactive graphics, and dashboards• Collect, wrangle, and clean large data sets and survey data• Merge in-house data with external data such as IPEDS, IPUMS, BLS• Develop surveys using research-based best practices• Analyze cross-sectional and longitudinal data using descriptive and inferential statistics• Lead workshops to train members on internal data tools, visualization practices
2014-2019	Teaching Associate English Language Institute, University of Tennessee - Knoxville, TN <ul style="list-style-type: none">• Taught English to international students• Conducted program evaluation via modeling of international student GPAs• Tracked student achievement (TOEFL) scores for use in proposals and reports• Produced student enrollment dashboards• Co-developed and co-facilitated workshops for university faculty and graduate students on teaching international students

Software

Janda, K., Gamble, H., Lama, T., Crane, S., **Schmidt, A.** (2023). *amplifyR* [Internal R package].

Rocconi, L. & **Schmidt, A.** (2022). *mlmhelp* [R package]. <https://cran.r-project.org/web/packages/mlmhelp/index.html>
Schmidt, A. & Kulma, K. (2020). *footprint: Calculate air travel emissions* [R package]. <https://cran.r-project.org/web/packages/footprint/index.html>

Selected Publications and Presentations

Schmidt, A. (2022). University air travel and greenhouse gas mitigation: an analysis of higher education climate policies *International Journal of Sustainability in Higher Education*. <https://www.emerald.com/insight/content/doi/10.1108/IJSHE-07-2021-0318/full/html?skipTracking=true>

Schmidt, A. (2022, February). *The representation of women and racial/ethnic minorities in the workforce of minority-serving higher education institutions* [Research report]. CUPA-HR. <https://www.cupahr.org/surveys/research-briefs/women-minorities-msi-workforce-february-2022/>

Schmidt, A. (2016). Listening journals for extensive and intensive listening practice. *English Teaching Forum*. 54. <https://eric.ed.gov/?id=EJ1104020> # Skills

Data Science Tools	R, R Markdown, Git, SPSS, SQL, Python (basic)
Data Visualization	R, Tableau, Adobe Illustrator, Shiny
Survey Research	Questionnaire design, Sampling, Weighting, Analysis
Statistical Methods	Linear Regression, Logistic Regression, Multilevel Modeling EFA, CFA, SEM, IRT, Difference-in-Difference Propensity Score Matching, Ridge Regression
Other Computer Languages	HTML, CSS, Javascript (basic)
Natural Languages	English (native), French (intermediate), Korean (basic)
Other	Audacity (audio editing), Text Mining, Web scraping, Wordpress

Notes

This CV is reproducible. All the source code behind this CV is available on [my Github repo](#).