





Anthony Schmidt

Researcher | PhD Student

Resume

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

Education

- 2018 - present **PhD, Educational Psychology and Research**
University of Tennessee, Knoxville
- 2011 **MSEd, Language, Literacy, and Cultural Education**
Indiana University, Bloomington
- 2006 **BA, Anthropology**
University of South Florida

Professional Appointments

- 2019 - present **Data Visualization Researcher**
College and University Professional Association for Human Resources (CUPA-HR) - Knoxville, TN
- 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
- **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

Additional Experience

- 2021-present **Sustainable Energy Working Group**
Office of Sustainability, UT-Knoxville
- Lead the development and implementation of a large, university-wide survey. Lead design, sampling, and analysis.
- 2021-present **mlmhelp**
UT-Knoxville (w/Dr. Louis Rocconi)
- Co-developing an R package of auxiliary functions for multilevel models. Using Github for collaboration.
- 2021 **Applied Statistics III**
UT-Knoxville (w/Dr. Louis Rocconi)
- Developed materials to teach R in an advanced, graduate-level applied statistics course.
- 2020-2021 **Twitter and Data Visualiuzation**
UT-Knoxville (w/Dr. Joshua Rosenberg)
- Conducted social media research through text mining, twitter analytics, and survey development. Used planned missing data designs, imputation, and modeling for analysis.

2019-2020

Planting the Seeds for Computer Science

UT-Knoxville (w/Dr. Joshua Rosenberg)

- Developed a state-wide survey for the creation of professional development sessions to introduce K-8 computer science standards.

Software

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

Rocconi, L. & Schmidt, A. (2021). *mlmhelp* [R package]. <https://github.com/lrocconi/mlmhelp> [Under development]

Selected Publications

Schmidt, A. (2021). *University air travel and greenhouse gas mitigation: An analysis of higher education climate policies* [Under review]. EdArXiv. <https://doi.org/10.35542/osf.io/bmuas>

Schmidt, A. & Rocconi, L. (2021). *STARS and stripes: Political and institutional factors that affect higher education sustainability ratings* [Under review]. EdArXiv. <https://doi.org/10.35542/osf.io/d5bku>

Schmidt, A. (2021). *Comparing intensive English program (IEP) and directly-admitted international students' academic achievement* [Under review]. EdArXiv. <https://doi.org/10.35542/osf.io/vm37t>

Schmidt, A. (2020). Are international students getting a bang for their buck? The relationship between expenditures and international student graduation rates. *Journal of International Students*. 10. 10.32674/jis.v10i3.1279

Schmidt, A., Rocconi, L., Morrow, J. A., Berry, B. (2019). *College of Architecture and Design's undergraduate advising 2019 report* [Research report]. Evaluation, Statistics, and Measurement (ESM) Program Research Group.

Morrow, J. A., Rocconi, L., Butler, B., & Schmidt, A. (2019). *University of Tennessee's undergraduate advising 2019 evaluation end of year report* [Research report]. Evaluation, Statistics, and Measurement (ESM) Program Research Group.

Selected Conference Papers and Presentations

Schmidt, A. (2021, October). *University air travel and GHG mitigation: An analysis of higher education climate policies* [Paper presentation]. Global Conference on Sustainability in Higher Education.

Schmidt, A. & Rocconi, L. (2021, August). *From click to code: Insights from instructors and students on moving from SPSS to R in a graduate-level applied statistics course* [Paper presentation]. Joint Statistical Meetings.

Schmidt, A. (2020, March). *Becoming "tidyr" over time: Data visualization development in an online community of practice* [Poster presentation]. University of Tennessee, Knoxville College of Education, Health, and Human Sciences Graduate Research Colloquium.

Schmidt, A. (2019, October). *A comparison of direct admit and IEP student academic achievement* [Paper presentation]. TESOL International Conference, Atlanta, Georgia.

Skills

Data Science Tools R, R Markdown, Git, SPSS, SQL (basic), 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, Webscraping, Wordpress

Notes

- Please click [here](#) to view my entire CV.
- This resume is reproducible. All the source code behind this resume is available on [my Github repo](#).