Anthony Schmidt

Data Viz Researcher | PhD Student

Curriculum Vitae
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Education

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

Professional Appointments

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

➤ Develop, program, analyze, and visualize **surveys** for internal members [example]
➤ **Collect, wrangle, munge, join and clean** large data sets and survey data
➤ **Merge** in-house data to external data such as IPEDS, IPUMS, NYT Covid Case Counts
➤ **Analyze** cross-sectional and longitudinal data, include **descriptive and inferential statistics**
➤ Develop **static visualizations** for report, web, and print graphics [example]
➤ Develop **dashboards** for research briefs and special projects [example]
➤ Develop **web-based interactive graphics** for research briefs and special projects [example]
➤ **Assist** members with access to data and data analysis
➤ 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 comparison of direct and conditionally-admitted international student GPAs
➤ Tracked student TOEFL scores and produced reports used in proposals
➤ Produced **dashboards** related to enrollment for director of international recruitment
➤ Co-developed and co-facilitated **workshops** for university faculty and graduate students on teaching international students

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). *mlmhelpr* [R package]. https://github.com/lrocconi/mlmhelpr [Under development]

Publications

Peer Reviewed Journal Articles

Pre-Prints and Unpublished Manuscripts

Schmidt, A. (2021). *University air travel and greenhouse gas mitigation: An analysis of higher educationclimate 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

Book Reviews

Technical Reports

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.

Conference Papers and Presentations

International/National Conferences

Schmidt, A. (2020, November). *University air travel and GHG mitigation: Examining institutional policies through the lens of #flyingless* [Panel presentation]. Roundtable of Sustainable Academic Travel: Mapping Travel Policies in FHE.

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

Schmidt, A. (2017, March). *Off course: A comparison of university and EAP coursebook writing tasks* [Paper presentation]. TESOL International Conference, Seattle, Washington.

Regional Conferences

Rosenberg, J. M., Hodge, L., Aydeniz, M., **Schmidt, A.**, Lishinski, A., Rich, K., Longnecker, J., Mann. M., & Sadovnik, A. (2020, January). *A survey of teachers and administrators regarding the implementation of new K-8 computing education standards in Tennessee* [Paper presentation]. 14th Annual Tennessee STEM Education Research Conference, Cookeville, Tennessee.

Schmidt, A. (2016, October). *Academic reading circles* [Conference session]. Southeast TESOL Regional Conference, Louisville, Kentucky.

Schmidt, A. (2016, May). *Principled washback: Integrating test prep to foster academic skills* [Conference session]. Toronto TESOL Conference, Toronto, Canada.

Poster Presentations

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, March). *A comparison of direct-admit and IEP undergraduate international student achievement* [Poster presentation]. University of Tennessee, Knoxville College of Education, Health, and Human Sciences Graduate Research Colloquium.

Research and Evaluation Experience

2021-present	**Sustainable Energy Working Group** Office of Sustainability, UT-Knoxville | Advisor: Michael McKinney (Earth & Planetary Sciences) ➤ Leading a working group to assess student, faculty, and staff perceptions of sustainable energy project on campus
2021 Spring	**Applied Statistics III** UT-Knoxville | Advisor: Louis Rocconi (Educational Psych. & Counseling) ➤ Develop materials for data cleaning, data analysis, and advanced statisticsusing R. Offer R office hours to help students learn and troubleshoot R
2020-present	**Twitter and Data Visualiuzation** UT-Knoxville | Advisor: Joshua Rosenberg (Theory & Practice in Teacher Ed) ➤ Text mining, Twitter analytics, and survey project assessing data visualization skill development via the #TidyTuesday twitter hashtag/community.
2020 Summer	**University Climate Policies** Office of Sustainability, UT-Knoxville | Advisor: Jay Price ➤ Examined how university climate policies mitigate air travel-related greenhouse gas emissions.

2020 Summer **R Handbook for ESM Students**
UT-Knoxville | Advisor: Jennifer Morrow (Educational Pysch. & Counseling)
➤ Developed handbook to learn R, tailored to evaluation, statistics and measurement students. Available at https://bookdown.org/aschmi11/RESMHandbook/

2019-2020 **Planting the Seeds for Computer Science**
UT-Knoxville | Advisor: Joshua Rosenberg (Theory & Practice in Teacher Ed)
➤ Needs analysis for the creation of professional development sessions to introduce K-8 computer science standards. Work included survey design, analysis, and reporting.

Skills

Data Science Tools	R, R Markdown, Github, SPSS, Stata, SQL (basic), NVivo, VS Code
Data Visualization	R, Tableau, Adobe Illustrator, Infogram, Shiny
Survey Research	Qualtrics, QuestionPro, Alchemer
Quantitative Research	Linear Models, Logistic Regression, Multilevel Modelling, SEM, IRT, Causal Inference, Propensity Score Matching
Qualitative Research	Document Analysis, Content Analysis, Thematic Analysis
Teaching Tools	Canvas, Blackboard, Quizlet, Kahoot, Quizizz, EdPuzzle, Padlet
Computer Languages	R, HTML, CSS, Javascript (basic), Python (basic)
Natural Languages	English (native), French (intermediate), Korean (basic)
Other	Audacity (audio editing), Corpus Linguistics (BYU, Antconc, tidytext), 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.