Anthony Schmidt

Data Science & Applied Research

Curriculum Vitae

April 2022



Education

Professional Appointments

University of South Florida

2021 - present	Data Scientist Amplify Education	Remote
2019-2021	Data Visualization Researcher College and University Professional Association for Human Resources (CUPA-HR)	Knoxville, TN
2014-2019	Teaching Associate English Language Institute, University of Tennessee	Knoxville, TN
2012-2014	English Language Instructor Department of English Language and Literature, Pukyong National University	Busan, South Korea

Software

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

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

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.** (2020). Are international students getting a bang for their buck? The relationship between expenditures and international student graduation rates. *Journal of International Students*. 10(3). 10.32674/jis.v10i3.1279

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

Pre-Prints and Unpublished Manuscripts

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

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

Book Reviews

Schmidt, **A.** (2021). Review of the book International students in first-year writing: A journey through socio-academic space, by M. Siczek *Journal of International Students*. 9(3). https://doi.org/10.32674/jis.v0i0.907

Technical Reports

- **Schmidt, A.** (2022, Febraury). 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.**, & Jones, S. N. (2021, September). *Sustainabe energy attitudes report* [Research report]. University of Tennessee, Knoxville. https://acircleda.shinyapps.io/SustainableEnergySurvey
- Pritchard, A. & **Schmidt**, **A.** (2020, July). *The Higher Ed HR Workforce* [Research report]. CUPA-HR. https://www.cupahr.org/surveys/research-briefs/
- Bichsel, J., McChesney, J., & **Schmidt**, **A.** (2019). Focus on psychology faculty: Salaries, pay equity, minority representation, and the growth of non-tenure-track faculty [Research report]. CUPA-HR. https://www.cupahr.org/surveys/research-briefs/
- Nadel, S., **Schmidt**, **A.**, & Bichesel, J. (2019). The impact of the FSLA overtime rule on higher education [Research report]. CUPA-HR. https://www.cupahr.org/surveys/research-briefs/
- **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 eval- uation end of year report* [Research report]. Evaluation, Statistics, and Measurement (ESM) Program Research Group.

Conference Papers and Presentations

International/National Conferences

- **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, September). *Principles and practices for great data visualization* [Conference session]. CUPA-HR Annual Conference.
- Rosenberg, J., **Schmidt, A.**, Rosenberg, A., Longnecker, J., & Mann, M. (2020, June). *Becoming Tidier Over Time: Studying #tidytuesday as a Social Media-Based Context for Learning to Visualize Data* [Paper presentation]. International Society of the Learning Sciences. https://repository.isls.org/handle/1/6455.
- **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.
- **Schmidt, A.** (2016, February). Academic reading circles and collaborative meaning construction [Conference session]. GATESOL IEP Mini-Conference, Atlanta, Georgia.
- **Schmidt, A.** (2015, October). Audio diaries for improved spoken grammatical accuracy and pronunciation [Conference session]. Southeast TESOL Regional Conference, New Orleans, Louisiana.

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.

Schmidt, A. & Chitty, E. (2018, May). *Making history: Supporting language through content in intensive English programs* [Poster presentation]. NAFSA Annual Conference, Philadelphia, Pennsylvania.

Campus & Department Talks

Schmidt, **A.** (2020, October). University air travel and GHG mitigation: Examining institutional policies through the lens of #flyingless [Invited presentation]. Committee for the Campus Environment, University of Tennessee, Knoxville.

Schmidt, A. & Chitty, E. (2018, March). *Teaching international students: Improving learning for all.* [Workshop]. Teaching and Learning Innovation, University of Tennessee, Knoxville.

Schmidt, **A.** (2016, November). *Intensive reading for learner engagement*. [Conference session]. Re-Imagine: Teaching and Learning Innovation Symposium, University of Tennessee, Knoxville.

Invited Talks

Schmidt, A. (2018, March). Two hot topics in OLL research: Corpus linguistics and telecollaboration [Webinar]. OLLReN, Cambridge University Press.

Professional Workshops, Webinars, and Trainings

Schmidt, A. (2020, December). Research Skills Lab: Data Visualization Basics [Workshop]. CUPA-HR.

Schmidt, A. (2020, October). *Data Visualization in R* [Workshop]. Fall 2020 Evaluation, Statistics, and Measurement seminar, University of Tennessee, Knoxville.

Pritchard, A. & Schmidt, A. (2020, September). Snapshot of the higher ed HR workforce [Webinar]. CUPA-HR.

Schmidt, A. (2020, April). *Tableau training: Building your first dashboard* [Workshop]. Spring 2020 Evaluation, Statistics, and Measurement seminar, University of Tennessee, Knoxville.

Research and Evaluation Experience

2021 Sustainable Energy Working Group

Office of Sustainability, University of Tennessee, Knoxville

- Lead the development and implementation of a large, university-wide survey. Lead design, sampling, and analysis. Interactive dashboard of results: https://acircleda.shinyapps.io/SustainableEnergySurvey/
- Advisor: Jay Price (Office of Sustainability), Dr. Michael McKinney (Earth & Planetary Sciences)

2021-present mlmhelpr

University of Tennessee, Knoxville

- Co-developing an R package of auxillary functions for multilevel models. Using Github for collaboration.
- Advisor: Dr. Louis Rocconi, Educational Psychology and Counseling

2021-2022 Air Travel Research

Office of Sustainability, University of Tennessee, Knoxville

- Analyzing air travel footprint of UTK faculty. Examined how university climate policies mitigate air travel greenhouse gas emissions.
- Advisor: Jay Price

2020 Fall Applied Statistics III

University of Tennessee, Knoxville

- Developed educational materials to learn R for data cleaning, data analysis, and advanced statistics for an advanced statistics cousrse. Offered R office hours to help students learn and troubleshoot R
- Advisor: Dr. Louis Rocconi, Educational Psychology and Counseling

2020-present Twitter and Data Visualiuzation

University of Tennessee, Knoxville

- Conducted social media research through text mining, twitter analytics, and survey development. Used planned missing data designs, imputation, and modeling for analysis.
- Advisor: Dr. Joshua Rosenberg, Theory and Practice in Teacher Education

2020 Summer R Handbook for ESM Students

University of Tennessee, Knoxville

- Developed handbook to learn R, tailored to evaluation, statistics and measurement students. Available at https://bookdown.org/aschmi11/RESMHandbook/
- Advisor: Dr. Jennifer Ann Morrow, Educational Pyschology and Counseling

2019-2020 Planting the Seeds for Computer Science

University of Tennessee, Knoxville

- Needs analysis for the creation of professional development sessions to introduce new K-8 computer science standards. Work included survey design, analysis, and reporting.
- Advisor: Dr. Joshua Rosenberg, Theory and Practice in Teacher Education

Teaching Experience

Full-Time Experience

2014-2019 English Language Institute, University of Tennessee

Knoxville, TN

Teaching Associate

- Courses (non-credit): Grammar, Reading, Writing, Listening/Speaking
- Levels: Beginner to Advanced

2012-2014 Department of English Language and Literature, Pukyong National University

Busan, South Korea

- English Language Instructor
 - Undergraduate (3-credit): Intermediate Composition, Advanced Composition, Lower-Intermediate Conversation, Upper-Intermediate Conversation
 - Graduate (2-credit): TESOL Methodology, Pronunciation for TESOL Teachers

Other Teaching Experience

2021 Spring University of Tennessee, Knoxville

Knoxville, TN

Graduate Teaching Assistant

• Design materials and teach R for Applied Statistics III

2018 (Summer) Southeast University

Nanjing, China

Visiting Instructor, Department of Foreign Languages

• Course: Cross-Cultural Communication (1 credit, undergraduate)

2012-2014 Samsung Electronics/Pukyong National University

Busan, South Korea

English Language Instructor

Course: English Communication (3 credits, Intercultural Communication Under-

graduate Program)

2010-2012 Yangun Middle School

Busan, South Korea

Tsukuno Junior High School Osaka, Japan

English Teacher

English Teacher

English Teacher

2007-2009 Daicheong Middle School

Busan, South Korea

Teacher Training Experience

2009

2012 Pukyong National University

Busan, South Korea

In-Service Secondary School Teacher Trainer

In-Service Primary School Teacher Trainer

• National English Ability Test (NEAT) Writing Composition Training Program

2010-2012 **Busan Education Training Institute**

Busan, South Korea

Awards and Honors

2021	AERA Dissertation Grant AERA	not awarded
2020	Friends of Educational Psychology and Counseling Research Grant University of Tennessee	\$400
2020	Graduate Student Colloquium Travel Award for Best Poster University of Tennessee	\$250
2019	Graduate Student Senate Travel Award University of Tennessee	\$780
2018	Diversity Professional Development Fund for Staff University of Tennessee	\$1,000
2018	Travel Fund Tennessee Association of International Educators	\$500
2017	Travel Grant for IEP Instructors University of Pittsburgh	\$1,500
2012	Teaching Excellence Award Pukyong National University, Department of Humanities	\$300

Skills

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

Data Visualization R, Tableau, Adobe Illustrator, Shiny

Survey ResearchQuestionnaire design, Sampling, Weighting, AnalysisStatistical MethodsLinear 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

Current Memberships

- Association for the Advancement of Sustainability in Higher Education
- American Educational Research Association
- American Statistical Society
- American Associate for Public Opinion Research
- Data Visualization Society

Notes

This CV is reproducible. All the source code behind this CV is available on my Github repo.