





Anthony Schmidt

Data Visualization Researcher and PhD Student

Curriculum Vitae

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Education

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

Professional Appointments

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

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

- 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). <https://doi.org/10.32674/jis.v10i3.1279>

Pre-Prints and Unpublished Manuscripts

- 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>

Book Reviews

- Schmidt, A. (2019). 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

- Pritchard, A. & Schmidt, A. (2020, July). *The Higher Ed HR Workforce* [Research report]. CUPA-HR. <https://www.cupahr.org/surveys/research-briefs/>
- Feusting, M. & Schmidt, A. (2020, May). *Faculty in the health professions: Growth, composition, and salaries* [Research report]. CUPA-HR. <https://www.cupahr.org/surveys/research-briefs/>
- Pritchard, A., Nadel-Hawthorne, S., Schmidt, A., Fuesting, M., & Bichsel, J. (2020, April). *Administrators in higher education annual report: Key findings, trends, and comprehensive tables for the 2019-20 academic year* [Research report]. CUPA-HR. <https://www.cupahr.org/surveys/results/>

- Pritchard, A., Fuesting, M., Nadel-Hawthorne, S., **Schmidt, A.**, & Bichsel, J. (2020, March). *Faculty in higher education annual report: Key findings, trends, and comprehensive tables for tenure-track, non-tenure teaching, and non-tenure research faculty; academic department heads; and adjunct faculty for the 2019-20 academic year* [Research report]. CUPA-HR. <https://www.cupahr.org/surveys/results/>
- 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.**, & Bichsel, 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 evaluation end of year report* [Research report]. Evaluation, Statistics, and Measurement (ESM) Program Research Group.

Other Publications

- Pritchard, A., Bichsel, J., & **Schmidt, A.** (2020). DataOnDemand how-to guide: Benchmarking for faculty and staff size. CUPA-HR. <https://www.cupahr.org/wp-content/uploads/surveys/How-To-Benchmark-for-Faculty-and-Staff-Size.pdf>
- Schmidt, A.** (2016). Listening journals for extensive and intensive listening practice. *English Teaching Forum*, 54(2), 2–11.

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.** (2020, September). *Principles and practices for great data visualization* [Conference session]. CUPA-HR Annual Conference.
- 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 "tidy" 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. (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. (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., & Nadel-Hawthorne, S. (2020, April). *Research skills lab: DataOnDemand basics* [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

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| 2021-present | <p>Sustainable Energy Working Group Office of Sustainability, University of Tennessee, Knoxville</p> <ul style="list-style-type: none"> ➤ Leading survey research to assess student perceptions of sustainable energy projects on campus ➤ Advisor: Jay Price (Office of Sustainability), Dr. Michael McKinney (Earth & Planetary Sciences) |
| 2020-present | <p>Applied Statistics III University of Tennessee, Knoxville</p> <ul style="list-style-type: none"> ➤ Developed educational materials to learn R for data cleaning, data analysis, and advanced statistics for an advanced statistics course. Offered R office hours to help students learn and troubleshoot R ➤ Advisor: Dr. Louis Rocconi, Educational Psychology and Counseling |
| 2020-present | <p>Twitter and Data Visualization University of Tennessee, Knoxville</p> <ul style="list-style-type: none"> ➤ Text mining, Twitter analytics, and survey project assessing data visualization skill development via the #TidyTuesday twitter hashtag/community. ➤ Advisor: Dr. Joshua Rosenberg, Theory and Practice in Teacher Education |
| 2021-present | <p>Air Travel Research Office of Sustainability, University of Tennessee, Knoxville</p> <ul style="list-style-type: none"> ➤ Analyzing air travel footprint of UTK faculty. Examined how university climate policies mitigate air travel greenhouse gas emissions. ➤ Advisor: Jay Price |
| 2020 Summer | <p>R Handbook for ESM Students University of Tennessee, Knoxville</p> <ul style="list-style-type: none"> ➤ 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 Psychology and Counseling |
| 2019-2020 | <p>Planting the Seeds for Computer Science University of Tennessee, Knoxville</p> <ul style="list-style-type: none"> ➤ 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

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| 2021 Spring | University of Tennessee, Knoxville Graduate Teaching Assistant ➤ Design materials and teach R for Applied Statistics III | Knoxville, TN |
| 2014-2019 | English Language Institute, University of Tennessee Teaching Associate ➤ Courses (non-credit): Grammar, Reading, Writing, Listening/Speaking ➤ Levels: Beginner to Advanced | Knoxville, TN |
| 2012-2014 | Department of English Language and Literature, Pukyong National University 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 | Busan, South Korea |

Other Teaching Experience

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| 2018 (Summer) | Southeast University Visiting Instructor, Department of Foreign Languages ➤ Course: Cross-Cultural Communication (1 credit, undergraduate) | Nanjing, China |
| 2012-2014 | Samsung Electronics/Pukyong National University English Language Instructor ➤ Course: English Communication (3 credits, Intercultural Communication Undergraduate Program) | Busan, South Korea |
| 2010-2012 | Yangun Middle School English Teacher | Busan, South Korea |
| 2009 | Tsukuno Junior High School English Teacher | Osaka, Japan |
| 2007-2009 | Daicheong Middle School English Teacher | Busan, South Korea |

Teacher Training Experience

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| 2012 | Pukyong National University In-Service Secondary School Teacher Trainer ➤ National English Ability Test (NEAT) Writing Composition Training Program | Busan, South Korea |
| 2010-2012 | Busan Education Training Institute In-Service Primary School Teacher Trainer | Busan, South Korea |

Awards and Honors

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| 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 |

Current Memberships

- Roundtable of Sustainable Academic Travel
- Association for the Advancement of Sustainability in Higher Education
- American Statistical Society
- American Educational Research Association
- Data Visualization Society
- Tableau Users Group - Knoxville
- The Umbrella Academy

Skills

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| 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

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