

Ashley Sanders

Ph.D.

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Skills

Technical Skills

Data	SQL, Excel, Qualtrics, SPSS
Python	pandas, sklearn, gensim, spaCy, CoreNLP, tensorflow, keras
R	dplyr, tidyverse, ggplot2
Dashboards	Tableau, R
Languages	English (native), French (courant), Arabic, Spanish

Soft Skills

Project Management	Proactive
Resourceful	Collaborative

Education

2023- **Data Science Certification**
2024 University of Michigan online

2008- **Ph.D., History & Digital**
2015 **Humanities**
Michigan State University

2002- **B.S., Mathematics & History**
2006 Western Michigan University

Awards & Fellowships

- **“Mathematical Humanists” - \$250,000**
US National Endowment for the Humanities – Institute for Advanced Topics in Digital Humanities (2023)
- **“Middle School Data Science Education” - \$5000**
UCLA, DataX Grant (2023)
- **“Introduction to Digital Humanities Online Course” - \$40,000, UCLA**

Data scientist with 6 years expertise in data collection, statistical data analysis, and visualization in higher education who has drawn actionable insights from student experience surveys and demographic data, leading the Digital Humanities program at UCLA to double in size and become the second most-declared minor at the university.

Experience

- (April 2018 – Present) **Multidisciplinary Data Analyst**, UCLA, Los Angeles, CA, USA.
 - Developed language-agnostic bias detection method for unstructured texts with python, specifically LDA topic modeling with gensim and sentiment analysis on topics with VADER sentiment analysis toolkit.
 - Designed, deployed and assessed student experience surveys
 - Gathered, structured & visualized student demographic & survey data.
 - Recruited top talent and doubled the size of the program’s core faculty
- (Aug 2016 – Present) **Data Science Educator**, UCLA; Claremont McKenna College; Claremont Graduate University.
 - Facilitated more than 100 student data research projects.
 - Created new curricula for 12 data analysis classes on natural language processing, social media data analytics, and applied statistics.
 - Developed Data Science curriculum for Claremont McKenna College (university).
- (Dec 2016 – May 2018) **Project Manager, Computational Research Center**, The Claremont Colleges, Claremont, CA, USA.
 - Efficiently managed \$1.5 million grant budget and extended the budget for an additional year beyond the planned timeline while also expanding services and resources.
 - Assessed and augmented campus resources to support computational research through strategic partnerships
 - Increased participation by 600% in a computational research skills summer bootcamp by redesigning the curriculum and format and securing funding to make it sustainable.
- (Jan 2015 – Dec 2016) **Team Lead, Computational Research**, The Claremont Colleges, Claremont, CA, USA.
 - Built and supervised a team of 5 technologists.
 - Facilitated research data management planning for faculty research.
 - Designed, budgeted, and managed the creation of a \$200,000 technological space renovation project.
- (Aug 2013 – Jan 2015) **Network Developer**, H-Net (networks.h-net.org)
 - Constructed 98 mini-sites for research organizations on Drupal 7.
 - Trained more than 200 editors to use the new platform.

Scientific Outreach

- 2024 – *Visualizing History’s Fragments: A Computational Approach to Humanistic Research* (Palgrave). Data: <https://osf.io/ft4nr/>.
- 2023 – Invited Talk, “Interdisciplinary Computational Research,” ACM Hack at UCLA Hackathon.
- 2022 – “Scholars & New Leaders Digital Training Day,” talk and workshop, AHA & Western Association of Women Historians.
- 2021 – Consultant, “History through the Lens of Data,” Middle School Data Science Curriculum, Lucas Educational Foundation Grant.
- 2021 – “Detecting Latent Textual Bias: Topic Modeling and Sentiment Analysis,” Association for Computers and the Humanities.
- 2019 – “From the Margins to the Center: A Method to Mine and Model Complex Relational Data from French Language Historical Texts,” Digital Humanities 2019, Utrecht, the Netherlands.