

SAMAH FARIS ALSHRIEF

AI Data Scientist, Researcher, and and Policy Analyst

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📄 Samah989

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EDUCATION

- **Ph.D. Seton Hall University**, Higher Education Leadership, Management, and Policy: With Concentration in Research, Assessment and Program Evaluation. 2022
- **Master of Data Science**, Seton Hall University Expected Spring 2026
- Graduate Certificate. Seton Hall University, Data Science
- Certification, the University of Michigan Institute for Social Research, Summer Program in Quantitative Methods of Social Research 2018, 2019, 2020
- Graduate Certificate. Seton Hall University, Teaching English as a Second Language
- **Master of Education. Mercer University**, Higher Education Leadership 2014

SKILLS AND SOFTWARE

- **AI & Advanced Technologies:** AI Literacy, AI Agents, Prompt Engineering, Retrieval-Augmented Generation (RAG), Private AI Systems, API Integration, Workflow Automation
- Domain expertise in , RStudio , \LaTeX , Dedoose, STATA, Weka , SPSS , Tableau, PowerBI, RapidMiner Studio, Atlas.ti, ArcGIS, AWS LightSail for Research, Python, Iliad, Qualtrics, Jupyter Notebook, jamovi, HPC, Linux
- Expertise in Data Management and Data Ethics
- Expertise in Research Design and Research Computing
- Expertise in Data Collection Design
- Advanced comprehension of Quantitative and Qualitative Research methodologies
- Advanced comprehension of Research Lifecycle

WORKING EXPERIENCE

Data ILL Specialist

📅 Feb, 2020- Present

📍 Seton Hall University

- Led the development and implementation of data management systems to streamline data collection, storage, and retrieval processes.
- Provided expert data analysis consultations, contributing to research projects and guiding organizational decision-making processes.
- Support the Institutional Review Board (IRB) applications, ensuring compliance with ethical standards for research.
- Support the organization's internal digital transformation initiatives.
- Provided mentorship to students and the data services team, enhancing their skills in data management and analysis.
- Organized and led training sessions for faculty, focusing on effective data management and research methodologies.
- Administered specialized software tools used in data analysis and research, ensuring optimal utilization and maintenance.
- Actively contributed to grant writing efforts, particularly for projects involving research data and computing.
- conducted first advanced computational research activities on campus.
- Collaborated with interdisciplinary departments to facilitate data-driven approaches to research and organizational projects.
- Maintained up-to-date knowledge of data privacy and protection ethics, and ensured compliance in all aspects of data handling.
- Prepared detailed reports and documentation on data findings, and presented insights to deans.
- Identified and implemented innovative data management and analysis tools to enhance research effectiveness.

Adjunct Professor

📅 Jan, 2023- Jan , Present

📍 Seton Hall University

ICPSR Official Representative

📅 2023 - Present

📍 Seton Hall University

Women in Data Science (WiDS) Ambassador

📅 2025, Present

📍 Seton Hall University

TEACHING EXPERIENCE

Adjunct Professor

📅 2023-Present

📍 Seton Hall University

- ENVL3150 Geographic Information Systems
- IPHS 3550 AA Statistics and Research in the Health Sciences
- ELMP6005EX Statistical Methods

Teaching Assistant

📅 2017-2019

📍 Seton Hall University

- 2018-FALL-ELMP6005EX Statistical Methods
- 2018-FALL-ELMP8890NA Survey Research
- 2019-FALL-ELMP6005NA Statistical Methods

3 Data Instructor

📅 2020-Present

📍 Seton Hall University

- Research Computing in AWS
- Sequence Data Analysis
- Advanced Qualitative Research
- Introduction to Jupyter Notebook
- Introduction to STATA
- Data Manipulation in STATA
- Qualitative Data Analysis in Atlas.ti
- Coding in Qualitative Research
- Introduction to PowerBI
- Research Data Management
- Introduction to ggplot
- Building Survey in Qualtrics
- Survey Research in Qualtrics
- StoryMaps in ArcGIS
- Constellate Text Analysis

PROJECT EXPERIENCE

Private AI for Syllabi Analysis

📅 2025-Present

📍 Seton Hall University

- Designed and deployed a private AI app for Business School faculty to analyze course syllabi and generate document-grounded feedback.
- Built an internal application using Python, Streamlit, ChromaDB, and the DeepInfra API to support secure syllabus upload, retrieval, and large language model analysis.
- Developed analysis workflows to evaluate syllabus language, structure, inclusiveness, and learner-centered practices using grounded prompts and standardized scoring logic.
- Implemented ingestion and indexing pipelines for syllabus documents so faculty and academic units could query and assess materials through a focused institutional interface.
- Supported adoption by configuring the tool for internal use and helping faculty apply AI-based syllabus review in academic and administrative workflows.
- Trained faculty on how to use the system, interpret AI-generated outputs.

Research Computing Initiative

📅 August 2024 - Present

📍 Seton Hall University

- Spearheading the formation of the Research Computing (RC) Committee to establish a dedicated unit for research computing support, including infrastructure design and faculty collaboration.
- Leading the drafting and submission of an internal grant proposal to secure funding for a robust research computing infrastructure, including clusters, high-performance storage solutions, and scalable resources to support computational research across disciplines.
- Collaborating with faculty to identify and document needs for research computing support, and proposing a structured support and reporting framework for the Research Computing unit.
- Proposed the creation of new positions to support the RC infrastructure, ensuring operational efficiency and system support for faculty research computing needs.

Biomechanics Data Analysis Project

Predicting Professional Speed and Preventing Injuries in Seton Hall Baseball Players

📅 2023

📍 Seton Hall University

1. Analyzed 3D biomechanics data of Seton Hall baseball players, including X, Y, and Z coordinates over different time lapses.
2. Built a predictive model to identify the strongest predictors of professional speed and injury prevention.
3. Employed machine learning models such as linear regression, decision trees, random forests, and support vector machines to train and validate the data.
4. Conducted comprehensive data analysis to gain insights into players' biomechanics, helping to optimize training programs and reduce the risk of injuries.

AWS-Based Research Computing Project

[R for Sequence Data analysis in LightSail for Research]

📅 2023-Present

📍 Seton Hall University

- Collaborated with the IT department, data services team, and a biology professor to pioneer the first computing research project at the university.
- Responsible for selecting the appropriate AWS product, liaising with the Amazon team to understand and utilize the best available resources.
- Developed and led a training course on RStudio in AWS LightSail, tailored for research applications.
- Focused the course on sequence data analysis, making it highly relevant for the biology department's research needs.
- Retrieved data using APIs and various toolkits such as SRA (Sequence Read Archive), integrating data from multiple genomic data providers including NCBI (National Center for Biotechnology Information).
- Guided two students through the training, equipping them with the skills to leverage AWS for advanced data analysis in their research.
- The project set a precedent for future research computing initiatives and strengthened the collaboration between various departments.

DataLab

📅 2022-Present

📍 Seton Hall University

Main Duties

- Actively engaged with the RDS team and faculty members in brainstorming research designs and identifying the required data training for various research projects, spanning qualitative, quantitative, ArcGIS, and social media analysis methodologies.
- Oversaw the coordination and management of 43 concurrent research projects within the DataLab, ensuring timely progress, effective communication, and resource allocation.
- Conducted comprehensive training sessions for students on research data management (RDM) and research data analysis using various software tools, tailored to the specific needs of each project.
- Offered one-on-one consultations and follow-up meetings with students to address any concerns or questions, providing ongoing support and guidance throughout the research process.
- Collaborated with faculty in the recruitment and recommendation of students to join the RDS team, ensuring the selection of highly motivated and skilled individuals.
- Ensured the availability of the RDS team for post-training consultations and data assistance, fostering a strong support network for students as they applied their newly acquired data analysis skills to their research projects.
- Facilitated the successful completion of research projects within the DataLab, with students graduating with a \$1000 stipend per semester, valuable data analysis skills, and tangible outcomes such as publications and professional presentations.

DiploLab

📅 2022-2023

📍 Seton Hall University

Main Duties

- Served as a data specialist for the DiploLab at Seton Hall University's School of Diplomacy, enhancing research capabilities through expert data analysis
- Led quantitative and qualitative software training sessions for DiploLab participants, promoting proficiency in essential tools such as ATLAS.ti and Stata to enhance research capabilities and outcomes.
- Provided ongoing technical support to the lab, troubleshooting software issues and offering guidance in data analysis and interpretation.
- Collaborated closely with the policy librarian to develop and refine plans and lesson content, ensuring a comprehensive and engaging learning experience for students in the field of international relations and diplomacy

GRANTS

The DataLab and The DiploLab at Seton Hall University Libraries

Alshrief, S., Ince, S. DeLuca, L. Martin

📅 Carolyn Jane Scott Charitable Trust via Wellsfargo 📍 \$25,000.00

"Cuidados personales" (personal care): Latinx/Hispanic participant experiences with self-care during the COVID-19 pandemic

D'Abundo, Rodriguez, Lowry, Rodriguez, Ince, Alshrief, S., Barrera

📅 Opportunity Meets Innovation Challenge grant award 📍 \$15,000.00

College Students' Experiences with Physical Activity Throughout COVID-19: A Mixed-Method, Big Qual Research Design

D'Abundo, Rodriguez, Lowry, Rodriguez, Ince, Alshrief, S., Barrera

📅 Opportunity Meets Innovation Challenge grant award 📍 \$15,000.00

The DataLab

Ince, S. Deluca, L Alshrief,S.

📅 Opportunity Meets Innovation Challenge grant award 📍 \$15,000.00

The DataLab

Ince, S. Deluca, L Alshrief,S., Barrett, C.

📅 The Academy Grant 📍 \$15,000.00

Research Data Services software and infrastructure

Ince, S. Deluca, L, Leonard, E.,Alshrief,S.

📅 OMIC 📍 \$51,000.00

PRESENTATIONS

Alshrief, S. Agentic AI in Higher Education: Designing Autonomous Agents for Education

📅 2026 📍 Women in Data Science (WiDS), Seton Hall University

Alshrief, S. Building Private AI Over Institutional Data

📅 2026 📍 Women in Data Science (WiDS), Seton Hall University

Alshrief, S. (2026). AI literacy

📅 Love Data Week, Seton Hall University

Alshrief, S., Barrett, C. Using Outlook Data to Document the Workload of Librarians.

📅 2022, October 📍 Midwest Data Librarian Symposium

Alshrief, S., Ince, S., Barrett, C., DeLuca. The DataLab: Innovative Collaboration Between Faculty, Students, and the Library.

📅 2022, October

📍 Southeast Data Librarian Symposium

Alshrief, S., Ince, S., Barrett, C., DeLuca. Research Data Services.

📅 2022, June

📍 Gen Z Summer Institute

Alshrief, S., Ince, S., Barrett, C., DeLuca. Atlas.ti For Qualitative Research.

📅 2022, June

📍 Gen Z Summer Institute

Alshrief, S. and Barrett, C. Data Ethics.

📅 2021, October 6

📍 icpsr-biennial-meeting-2021

Alshrief, S. Barrett, C. DeLuca, and S. Ince. ArcGIS StoryMaps: Everybody Has A Story To Tell.

📅 2021, October 15

📍 Southeast Data Librarian Symposium

Alshrief, S., Ince, S., Barrett, C. L. DeLuca. Atlas.ti for Literature Review

📅 (2021, October 18

📍 Midwest Data Librarian Symposium

Barrett, C., DeLuca, L., Alshrief, S. and S. Ince. Data Consultations:

📅 2021, October 14

📍 Southeast Data Librarian Symposium

Ince, S., Alshrief, S., DeLuca, L. and Barrett, C. Starting Research Data Services during a Pandemic

📅 2021, October

📍 Access Conference

The 2020 Petersheim Academic Exposition "Share, Honor, Unite"

📅 2020

📍 Seton Hall University

The 2018 Petersheim Academic Exposition "Share, Honor, Unite"

📅 2018

📍 Seton Hall University

RESEARCH PROJECTS

- Alshrief, Samah. Language Barriers for International Students in American Colleges.
- Alshrief, Samah, The Effect of Research Experience on Graduation Rate within 4 years.
- Alshrief, Samah, Obstacles, Challenges and Barriers Influencing First-Generation College Students' Persistence and Degree Attainment.
- Alshrief, Samah, Students' Enrollment Trends in Saudi's Universities Before and After 2005, Interrupted Time Series Analysis.
- Alshrief, Samah, Budget Analysis; Georgia Institute of Technology.
- Alshrief, Samah, The True North: King Abdullah Scholarship Program; A tool for Building Saudi's Society. An evaluation Paper.
- Alshrief, Samah, Organization and Governance of University of Washington; An Evaluation Paper.
- Alshrief, Samah, The Red Sea University: Vision, Organization and Governance Exploration. A proposal to Establish a new University.
- Alshrief, Boddies, Montilus, UmmAl-Qura University Teaching and Evaluation Cafe Program Evaluation.
- Alshrief, Samah, Distinctive features of American Higher Education System.

PROFESSIONAL AFFILIATIONS

- Research Data Access and Preservation Association (RDAP)
- The Campus Research Computing Consortium (CaRCC)
- National Association of Student Personnel Administrators (NASPA)
- Association for the Study of Higher Education (ASHE)
- American Educational Research Association (AERA)