
Emmanuel Souza

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SUMMARY

Demographer with strong research and analytical skills with a computer science background. I also have strong communication and leadership skills developed from extensive teaching and administrative experience and the ability to work independently or as part of a team.

SUMMARY OF SKILLS

- Strong critical thinking and data analysis skills
- Experience in collection, management, and organizing research data
- Excellent data wrangling, analysis, visualization, and web scrapping using R
- Strong communication and leadership skills
- Strong spatial data analysis and visualization using ArcGIS
- Excellent skills in demographic analysis
- Good working knowledge of SQL, Redcap, LaTeX, and Microsoft Office suite

EDUCATION

University of Pennsylvania Ph.D., M.A., Demography	Expected May 2020
University of Cape Town MPhil. Demography	2012
University of Malawi BSc. Computer science	2006

WORK EXPERIENCE

University of Pennsylvania Graduate researcher	2016-2020
<ul style="list-style-type: none">• Consolidated and analyzed data on remittances from four countries• Conducted four independent coursework studies using various statistical methods, including event history analysis, logistic regressions, and longitudinal data analysis methods• Presented my research at annual conferences of the Population Association of America (PAA)	
Research Assistant - MLSFH	Summer 2017 Summer 2019
<ul style="list-style-type: none">• Managed project fieldwork in Malawi, which, among other things, I trained a group of 50 interviewers in data collection using CAPI• Designed and programmed data collection tools in Redcap• Implemented daily data quality checks and Redcap server uploads	
GIS Intern	Aug 2018- Mar 2019
<ul style="list-style-type: none">• Created address locator for geocoding in all states in the U.S. using county shapefiles• Produced a georeferenced map of 1939 Philadelphia by georectifying several raster files• Maintained geospatial database for the Philadelphia mapping project.	

TEACHING EXPERIENCE

University of Pennsylvania

Teaching Assistant – Categorical data analysis

Fall 2019

- Designed and delivered weekly recitation sessions to a group of 16 graduate students
- Taught data analysis using R and the use of LaTeX to write course projects
- Graded homework assignments and provided feedback

University of Malawi

Lecturer

2013-2016

Courses taught: Average class size = 40

- Introduction to population studies
- Migration
- Research Methods
- Project planning, monitoring, and evaluation

University of Cape Town

Tutor – Biostatistics and Formal demography

- Planned and conducted weekly homework revision sessions
- Graded homework assignments

LEADERSHIP AND TEAMWORK

Regional Supervisor – 2015 Malawi Demographic and Health Survey (DHS)

2015-2016

- Trained a group of 100 data collectors
- Supervised the work of data collectors in 5 districts
- Resolved field work problems and conflicts among field team members
- Coordinated with other regional supervisors

Deputy head of department – University of Malawi

2015-2016

- Spearheaded the review of the curriculum
- Represented the department in university-wide and international meetings
- Applied and received grant funds to implement a departmental research project

HONORS AND AWARDS

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| • Benjamin Franklin Fellowship, University of Pennsylvania | 2016-2020 |
| • Rodin Fellow, University of Pennsylvania | 2018-2019 |
| • Dean's Travel Subvention, SAS, University of Pennsylvania | 2018;2019 |
| • GAPSA Travel Subvention, University of Pennsylvania | 2018;2019 |
| • Wellcome Trust – HRCI Masters Fellowship | 2011-2012 |

SKILLS

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| • Data Analysis | : R, Stata, ArcGIS |
| • Database/Web | : Redcap, SQL, html |
| • Documents | : Microsoft Office, LaTeX |
| • Languages | : English (fluent), French (beginner), Chichewa (native) |

REFEREES

- Upon request
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