

SAJID AL SANAI

DATA SCIENTIST

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EDUCATION

M.A, Economics, The University of Washington	2017-2019
Visiting Student in Mathematics, BRAC University	2015-2016
B.B.A., Economics, The University of Iowa	2012-2014
Graduated with High Distinction	

PROFICIENCIES

Languages	English (native) • Bangla (native) • French (intermediate) • Hindi (spoken)
Programming	Python (<i>NumPy</i> , <i>SciPy</i> , <i>Pandas</i> , <i>Scikit-Learn</i> , <i>TensorFlow</i>) • Matlab • R • SQL • C#
Software IDEs	Stata • Jupyter Lab • MATLAB • Octave • R Studio • MySQL Workbench • Unity
Word-processing	LaTeX • Microsoft Office
UNIX-based OS	macOS • Linux (<i>Fedora</i> , <i>Ubuntu</i> , <i>Mint</i>)

EXPERIENCE

Monenco Consulting Engineers	2022-present
<i>Engineer (Data Science) • Smart Solutions & AI Department</i>	Remote
<ul style="list-style-type: none">Developed ETL pipeline and anomaly detection system for power plant generator subsystems using convolutional neural network and autoencodersDeveloping statistical model to measure electrical smart grid market share & price elasticity with AMI dataWriting whitepapers artificial intelligence & machine learning implementations in diverse smart solutions	
Na'ah Illahee Fund	2020-present
<i>Finance & Contracts Officer • Native American NGO</i>	Seattle, WA
<ul style="list-style-type: none">Tracking funded grants, contracts, deliverables, and fund disbursement for economic development programsLeading core team in performing bookkeeping, budgeting, and financial analysisManaging fiscal sponsorship support to (5) active non-501(c)3 status Native American organisationsLead transition from cash basis to accruals & restricted accounting under US GAAPCoordinated historically largest US 2020 Census drive for tribal communities in Washington	
The University of Washington	2017-2018
<i>Teaching Assistant • Department of Economics</i>	Seattle, WA
<ul style="list-style-type: none">Lectured <i>ECON201: Intro. to Macroeconomics</i> course and held office hours for class of 40 students	
Bangladesh Institute for Development Studies (BIDS)	2016-2017
<i>Research Assistant • The Ministry of Planning (Bangladesh)</i>	Dhaka, Bangladesh
<i>Labour Market and Skill Gap Analysis for the Construction Sector (2016), assisting Dr. Binayak Sen</i>	
<ul style="list-style-type: none">Designed primary research data-gathering questionnaire for construction sector stakeholdersContributed literature review of labour market, skill gap analysis, and migration in construction sectors	
<i>Ending Urban Extreme Poverty: Fresh Evidence from DSK-Shiree (2017), assisting Dr. Binayak Sen</i>	
<ul style="list-style-type: none">Evaluated randomised control trial interventions in phased urban poverty eradication economic researchTransformed and cleaned DSK-Shiree Survey 2015, 2017 (Phases I & II) datasetsDeveloped linear and logistic regression models investigating comparative impact of program treatment on socio-economic status, health-seeking & nutrition patternsPerformed regression analysis, drew inference, evaluated program efficacy, and proposed policy-prescription	
<i>Nutrition, Health, and Education: An Investigation with Bangladesh Demographic and Health Surveillance (BDHS) Data (2017), assisting Dr. Mainul Islam</i>	
<ul style="list-style-type: none">Transformed BDHS 1996-2016 into longitudinal dataset by merging legacy cross-sectional datasetsProduced new recode documentation outlining process for future institutional economic research	
bdnews24.com	2015-2016
<i>Sub-Editor</i>	Dhaka, Bangladesh
<ul style="list-style-type: none">Secured content sharing rights and partnership with <i>The New York Times</i> for <i>Turning Points Magazine</i>Maintained editorial oversight and lead technical overhaul and redesign of the <i>Opinion Pages</i> websiteDeveloped network of experts & analysts in specialized fields to contribute premium content & analysisLead editorial direction and technology development of <i>Stripe</i> youth platform to successful launch	

RESEARCH INTERNSHIPS

Statistical, Economic, and Social Research and Training Centre (SESRIC) 2019
Research Intern • SESRIC Economic Wing Ankara, Turkey

- Contributed research findings and governmental policy prescriptions to biannual *Education and Scientific Development Report (2019)* of OIC countries
- Developed econometric models investigating impact of sectoral research expenditure and technology infrastructure on various economic growth indicators

BRAC University 2016
Research Assistant • Department of Economics & Social Sciences Dhaka, Bangladesh

Fakir, A.M.S. "Footprints of War and Famine: Intrauterine and Intergenerational Effects of the 1971 Bangladesh Liberation War and the 1974 Bengal Famine." *Journal of Bangladesh Studies*. (2019).

- Developed econometric panel-data model with Matlab Household & Socioeconomic Survey dataset

International Labor Organization (ILO) 2014
Independent External Collaborator • Agency of the United Nations (UN) Beirut, Lebanon

Protecting the Rights of Women Domestic workers (PROWD)

- Prepared literature, notes, and supporting documents for Migrant Domestic Worker (MDW) survey planning in collaboration with tripartite stakeholders
- Constructed national random sampling frame for primary research and coordinated public access locations for surveying at-risk MDWs in all major Lebanese cities

HONOURS & AWARDS

Howard H. Preston Scholarship, *The University of Washington* 2017

Beta Gamma Sigma Honours Society, *Member* 2014

Chester A. Phillips Scholarship, *The University of Iowa* 2013

President's List, *The University of Iowa* 2013

Dean's List, *The University of Iowa* 2012-2014

University of Iowa National Scholars Award, *The University of Iowa* 2012