

Tejesh Pradhan

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SUMMARY

- PhD in Economics with over six years of expertise in economic modeling, as well as management, visualization and econometric analysis of household survey, census and administrative data.
- More than two years of experience in international development, which includes working with six country teams at the World Bank and interning in the Finance Department of the IMF.
- Certified Data Scientist with proficiency in machine learning, predictive analytics, data mining, distributed computing and natural language processing.

EDUCATION

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| Ph.D. in Economics, American University
Dissertation: <i>“Three Essays in Evidence-Based Approach to Development”</i> | Dec 2019 |
| M.A. in Economics, American University
Concentration: Development Economics | Jun 2017 |
| M.S. in Resource Economics, University of Massachusetts Amherst
Concentration: Applied Econometrics | Jun 2015 |
| B.S. in Economics and Mathematics, Williams College | Jun 2013 |

PROFESSIONAL EXPERIENCE

The World Bank (Washington, DC), Consultant

- Applied quasi-experimental impact evaluation techniques, hierarchical modelling and small area poverty estimation using census and household surveys to inform socioeconomic policymaking in six countries across ESAPV, GPV, EAPCE, GMF and GSP units.
- Estimated the impact of protracted cutback in international development aid on poverty and inequality outcomes to inform national and regional level antipoverty strategy in Afghanistan.
- Built, managed and designed interactive visualization portal of databases compiled from multiple public and private sources assessing over 200 district and province level social, economic and political indicators for Afghanistan to supplement country briefs addressing multisectoral development challenges.
- Analyzed data from 2,100 Indonesian public schools to determine how a curriculum designed to enhance socio-emotional skills and aspirations of students affected their future educational outcomes.
- Completed multilevel econometric analysis of the impact of self-reported weather/rainfall shocks on household consumption in Sub-Saharan Africa to identify families vulnerable to extreme poverty and apprise efficient post-disaster response programs.
- Co-authored a report analyzing the spatial distribution of poverty in Gambia using Small Area Estimation techniques
- Completed and interpreted Labor Force Survey data analysis for Bhutan Development Report and associated background papers.
- Created and assessed comprehensive poverty, vulnerability and inequality profiles as a part of Systematic Country Diagnostic Reports of Papua New Guinea and East Timor using household survey data.

International Monetary Fund (Washington, DC), Intern

- Entrusted to conduct an independent research project for the Concessional Finance division of the Finance Department, assessing the role of the Poverty Reduction and Growth Trust and identifying socio-political preconditions of program success
- Completed an empirical impact evaluation of whether concessional IMF programs facilitate economic growth and income convergence in eligible low-income countries (LIC)
- Presented findings to senior management for review and published the research in IMF Working Paper Series.
- Collaborated with Strategy, Policy and Review department to discuss policy implications with Directors responsible for review of IMF facilities available to LICs.

Ethics and Public Policy Center (Washington, DC), Intern

- Co-authored policy research columns addressing intergenerational inequality in Social Security and targeting inefficiency in Disability Insurance in the United States
- Reviewed and summarized MACRA legislation, Congressional Budget Office's long-term economic outlook and worker compensation laws
- Attended and reported on Congressional Budget Committee hearings and seminars on fiscal issues.

CERTIFICATES

Data Scientist, The Data Incubator (Washington, DC) Nov 2019

- Highly competitive training program in Big Data and Data Science techniques, including web scraping, machine learning, distributed computing, natural language processing, database management, visualization, neural networks and deep learning

Accredited Graduate Statistician, American Statistical Association Feb 2017
(Washington, DC)

**SCHOLARSHIPS
AND AWARDS**

The Data Incubator Fellowship, The Data Incubator Sep 2019 - Nov 2019

Award for Excellence in Econometrics, American University Apr 2019

Award for Excellence in Econometrics, American University Apr 2018

Award for Excellence in Econometrics, American University Apr 2017

Peter G. Peterson Fellowship, Peter G. Peterson Foundation Jun - Aug 2016

Jack Larned International Management Prize, Williams College Jun 2013

Carl Van Duyn Prize in Economics, Williams College Jun 2013

Shelby Davis Scholarship, Williams College Aug 2009 - Jun 2013

SKILLS

Programming: Python (Pandas, NumPy, SciPy, Scikit-Learn, TensorFlow, Matplotlib, Flask, Bokeh, Seaborn, PySpark) | STATA | SQL | R | SAS | \LaTeX

Data Science: Machine Learning | Natural Language Processing | Time-Series Analysis | Neural Network and Deep Learning | Data Visualization (Tableau) | Geospatial Analysis (ArcGIS)

Languages: English (Advanced), Nepali (Native), Hindi (Advanced), Spanish (Intermediate)

**DATA SCIENCE
PROJECTS**

The Role of FEMA Flood Insurance Programs in Social Protection 2019

- Investigated the effectiveness of flood insurance in US counties that included underserved areas to evaluate flood risks to inform future program expansion and disaster management policy.

Understanding Nepal Through Data

2019

- Visualized socioeconomic indicators and challenges to study cross-country metrics to better understand socioeconomic decisions needed for future economic success of the country.

ACADEMIC EXPERIENCE

Teaching Assistant, American University (Washington, DC) Fall 2015 - Spring 2019

- Assisted faculty members with management and execution of lectures with 30-50 undergraduate and graduate students in Applied Econometrics, Master's Capstone Seminar, Economic Development, Environmental Economics, and Introductory, Intermediate and Advanced Micro and Macro Economics
- Held individual and group tutorial sessions, supervised exams and maintained performance records

Statistical Consultant, American University (Washington, DC)

Fall 2017

- Provided consultations related to research design, data collection, data analysis, and statistical programming for faculty, staff, and students carrying out qualitative and quantitative research.

Teaching Assistant, University of Massachusetts (Amherst, MA) Fall 2013 - Spring 2015

Research Assistant, University of Massachusetts (Amherst, MA)

Summer 2015

- Analyzed the influence of health, human, personal, and social capital on life satisfaction among rural low-income mothers in the U.S. using rural American household survey data.

Teaching Assistant, Williams College (Williamstown, MA) Fall 2012 - Spring 2013

Research Assistant, Williams College (Williamstown, MA)

Summer 2013

- Created database of local, state and federal tax parameters for over 25 states in the U.S.

WORKS IN PROGRESS

Job Market Papers

Tejesh Pradhan, "IMF/IDA-supported Programs and Income Convergence in Low and Middle-Income Countries"

Tejesh Pradhan, "Effects of Educational Decentralization on Participation and Quality: A Case Study of Nepal"

Other Papers

Tejesh Pradhan and Ali J. Al-Sadiq, "IMF-Supported Programs and Income Convergence in Low-Income Countries," *IMF Working Papers*, 18/284 Dec 2018.

Tejesh Pradhan, "Long Term Consequences of Local Birth Year Rainfall in Nepal," *Journal of Development Studies*, Revise and Resubmit Sep 2014.

POLICY COLUMNS

Tejesh Pradhan and James C. Capretta, "Despite a temporary reprieve, the Social Security Disability Insurance program needs structural reform", *AEI Economic Perspectives* Dec 2017.

Tejesh Pradhan and James C. Capretta, "Social Security's Intergenerational Conundrum", *Real Clear Policy* Jul 2016.