DEBASMITA DAS

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Summary of Qualifications

- 5+ years of experience using MATLAB, STATA; Proficient in LaTeX, MS Office; Familiar with Python, R, SQL
- 5+ years of experience in quantitative research (Labor Economics, Public Policy); data cleaning, analysis, visualization
- **Econometrics:** Linear and Logistic Regression, Hypothesis Testing, Method of Moments, Principal Component Analysis
- **Quasi-experimental/Causal Inference:** Instrumental Variable, Difference-in-Differences, Regression Discontinuity
- **Computational Methods:** Value Function Iteration, Simulation, Interpolation, Numerical Integration, Optimization

Education

PhD Candidate, Economics, Purdue University — *Bilsland Dissertation Fellowship*   Aug 2016 – May 2022 (Expected)
MA, MPhil, Economics, Jadavpur University, India   Aug 2012 – Jul 2016
BS, Economics, St. Xavier's College, University of Calcutta, India — *First Class Honours*   Jul 2009 – Jul 2012

Research

Child-rearing, Social Security and Married Women's Labor Supply over the Life Cycle   [Job Market Paper]

- Studied how motherhood affects labor market trajectory, lifetime earnings, and public pension benefits of married women by developing a dynamic life-cycle model of married households with discrete and continuous choices
- Numerically solved the household optimization problem using backward induction algorithm in MATLAB
- Estimated model parameters using Method of Simulated Moments applied to micro-level household panel data
- Quantified the effects of counterfactual policy reforms by introducing Social Security Caregiver Credit and combining the introduction of Caregiver Credit with the removal of Spousal and Survivor benefits

SNAP Work Requirement and Food Insecurity   [Working Paper]

- Implemented a Difference-in-Differences approach to assess the effect of Supplemental Nutrition Assistance Program (SNAP) work requirement reinstatement on food insecurity outcomes of able-bodied adults without dependents
- Performed analysis utilizing cross-state variation in the reinstatement of the policy; conducted event study analysis, placebo tests, subsample analyses using data from the Food Security Supplement of the Current Population Survey
- Found that the policy reduced the probability of being food insecure by 1.92 percentage points

Estimating Elasticity of Import Demand for Gold in India   [Published version]

(with Paramita Mukherjee and Vivekananda Mukherjee), ***Resources Policy***, 2017, 51, pp. 183-193.

- Estimated elasticity of India's import demand for physical gold using a distributed lag framework
- Performed empirical analysis based on monthly gold import data from the UN Comtrade Database (1996-2014)

Inclusive Growth: Economics as if People Mattered   [Published version]

(with Aruni Mitra), ***Global Business Review***, 2018, 19(3), pp. 756-770.

- Constructed the Inclusive Growth Index (IGI) to measure the degree of inclusive growth achieved by an economy
- Calculated IGI values for 16 Asian countries using data from the World Bank database and the UNDP database
- Employed Principal Component Analysis (PCA) and weighted average technique to construct the index; used STATA

Work Experience

Purdue University, Graduate Research Assistant   Aug 2016 – Present

- Estimated labor income residuals before and after motherhood using STATA; Collected, cleaned, and combined data from the National Longitudinal Survey of Youth (NLSY) [Github Repository]
- Analyzed trends of various health indicators, created data visualizations and performed exploratory data analysis using STATA; Collected, cleaned, and merged data from the Behavioral Risk Factor Surveillance System (BRFSS)

Purdue University, Instructor and Graduate Teaching Assistant

- Course taught: ECON 370 International Trade; Mentored 15 students and supervised their individual class projects; Received Award for Distinguished Teaching (evaluation: 4.4/5)   Summer 2018
- Ran weekly STATA lab sessions for ECON 360 Econometrics (40+ students/sec., 2 sections)   Spring 2019, Spring 2020

Leadership and Volunteer Experience

Vice-President (Professional Development), Krannert Doctoral Student Association   2020 – 2021
Co-organized 5th Krannert Ph.D. Research Symposium   Oct 2020
Organized Panel Session "Policies Promoting Work and Health at Old Ages" at APPAM Fall Research Conference   2021