

# ARJUN GUPTA

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## Summary

Data Scientist and Researcher with experience executing the entire research process: from problem formulation to results communication. Strong quantitative background with expertise in causal inference, machine learning, predictive modeling, and data-driven decision-making. Experienced in extracting actionable business insights using Python, R, and SQL, and applying advanced analytics to drive results.

## Skills

**Technical Skills:** Econometric Models, Statistics, Machine Learning, Causal Inference (A/B Testing), Artificial Intelligence, Large Language Models, Data wrangling and visualization

**Programming Languages:** R, Matlab, Python, SQL, L<sup>A</sup>T<sub>E</sub>X, Linux, Git

## Education

### Tilburg University, The Netherlands

*Research Masters in Economics (Distinction)*

September 2020 – September 2022

GPA: 8.0

### Tilburg University, The Netherlands

*Master of Science in Econometrics and Mathematical Economics (Distinction)*

September 2017 – September 2019

GPA: 7.6

### Delhi University, India

*Bachelor of Science in Physics*

September 2011 – September 2014

## Work Experience

### World Bank

*Short Term Consultant*

August 2024 – Present

Remote

- \* Conducting meta-analysis for the Equitable Growth, Finance, and Institutions (EFI) Global Practice of the World Bank.
- \* Created a Database of government interventions to improve business conditions in developing countries.
- \* Conducted a literature review on the use of satellite imagery data to check the effect of Special Economic Zones in India.

### Erasmus School of Economics and Tinbergen Institute

September 2022 – March 2024

*Ph.D. Candidate in Econometrics*

Rotterdam, The Netherlands

- \* Wrote a research paper using applied econometrics methods such as logistic regression, on a large E-commerce website data set (1TB), and theoretical economic models.
- \* Nominated for the Best Paper award at [Winter School at Delhi School of Economics, 2023](#).
- \* Taught seminars on modern econometric theory, application, and programming at Bachelor levels.
- \* Supervised bachelor's theses on quantitative analyses and experiments.

### Tilburg University, The Netherlands

September 2020 – September 2022

*Research and Teaching Assistant*

Tilburg, The Netherlands

- \* Received a 4.5/5 rating as a Teaching Assistant for second-year undergraduate courses in Economics, where I solved tutorials for students.
- \* Created assignments for a master-level course on “Panel Data Econometrics”.

### National Institute of Public Finance and Policy

August 2015 – August 2017

*Research Programmer*

New Delhi, India

- \* [PenCalc](#): Wrote a quantitative [paper](#) and created an R package that simulates a distribution of pension at retirement age.
- \* Air Pollution: Wrote blog articles in [The Leap Blog](#), [Times of India](#), and, [research paper](#) using statistical techniques.
- \* [NIPFP-DEA Programme](#): Assisted the Ministry of Finance in making presentations to credit rating agencies such as S&P, Fitch, Moodys etc.
- \* [Impact of foreign institutional investor flows in the Indian equity market](#): Created a data set of daily net purchases by FII and estimated the behavior of FIIs on days of *extreme events* using event studies
- \* [Data System Management](#): Managed an automated self-updating framework for retrieval and storage of macroeconomic time series data using R and Unix tools

## SCHOLARSHIP

**CentER Scholarship:** 6,200 euros per year along with tuition fee waiver

Sep. 2020-Sep. 2022

**ERIM Research Grant**

Sep. 2023