

Nikhil Rahangdale

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EDUCATION AND HONOURS

Indian Institute of Foreign Trade (IIFT)

MA Economics (Specialization in Trade and Finance)

Delhi, IN

June 2023

- Cumulative GPA: 6/9
- Relevant Coursework: International Trade Theory 8/9, Econometrics 7/9, Financial Modelling 7/9, Mathematics 7/9
- Dissertation: Geopolitics and Mode of International Collaboration (Supervisor: Prof Sugata Marjit, School of Accounting & Finance, Hong Kong Polytechnic University)

Institute For Excellence in Higher Education

BA (Hons), Honors Subject: Economics, Subsidiary Subject: English Literature

Bhopal

June 2021

- Score: 65/100
- Relevant Courses: International Economics, Quantitative Technique, Econometrics Methods

PROFESSIONAL EXPERIENCE & INTERNSHIP

Ministry of Commerce

Research Intern under Shri Tapan Mazumder, Additional DGFT

New Delhi

June 2022 - Aug 2022

- Presented recommendations on addressing labor, environment, and sustainable development (TSD) issues in trade negotiation by Analyzing coverage and legal enforceability of recently signed Trade Agreements.
- Formulated a report recommending policies with a focus on green goods, services, and technologies to accelerate India's movement along its economic and environmental Kuznets curves to reduce inequality and environmental degradation.

Software Freedom Camp 2021 (Diversity Edition), FSCI

Mentor & Organizing Team Member

July 2021 - Jan 2022

- Managed system administration and server maintenance for various services, including Jitsi Meet, Codema, and XMPP.
- Provided technical support to 25+ mentors and learners weekly for resolving FOSS software issues.
- Implemented news and announcements using the self-hosted git repository.

Jitsi Meet

Open Source Contributor

Feb 2021- Apr 2021

- Contributed to the localization of Jitsi Meet, a popular open-source video conferencing software.
- Translated approximately 1000 lines of strings in main-hi.json (JSON file for translation) and pushed four commits to the master branch of the git repository.

SKILLS & INTERESTS

- **Empirical Research:** Proficient in a wide range of techniques including Time Series Analysis, Experimental Design, Quasi-Experimental Methods, Sampling, Hypothesis Testing, Causal and statistical Inference, and adept at handling both primary and secondary complex datasets.
- **Policy Experience:** Strong background in policy analysis, with expertise in Trade Policy, Geopolitics, Technology transfer, Trade Agreements, and Development Policy.
- **Data Analysis:** Expertise in the complete Data Pipeline, encompassing Data Cleansing, Wrangling, Visualization, Model Building, and Interpretation.
- **Statistical Software:** Proficient in statistical software including R, Python (scikit-learn, numpy, pandas, matplotlib), intermediate-level STATA, and beginner-level SQL.
- **Programming and Scripting:** Skilled in Unix/Linux, Bash/Shell Scripting, HTML, CSS, Git, and LaTeX.
- **System Administration:** Experienced in Server Maintenance, Troubleshooting, Networking (Apache, nginx), Peer-to-Peer Web Technologies, Custom Kernel Compilation, and proficient in managing Cloud/VMs.

PROFESSIONAL QUALIFICATION

Doing Economics: Measuring climate change

Coursera (University of London)

Nov - Dec 2022

- This online course provided practical experience by using real-world data on climate change to summarise the relationship between CO2 emissions and global temperatures, explain methods of identifying causal relationships between variables, and discuss the problem of spurious correlation

Diploma In Statistical Analysis

Institute For Excellence In Higher Education, Bhopal, MP

July 2018 - June 2019

- Developed a strong foundation in statistical concepts, methods, and SPSS applications using large datasets.

ACADEMIC PROJECTS & SEMINARS

Geopolitics and Mode of International Collaboration (Dissertation Project)

March - June 2023

Prof Sugata Marjit (First Distinguished Professor of IIFT)

In this dissertation, I explored the strategic importance of international collaboration in mitigating risks arising from geopolitical tensions and other idiosyncratic factors, such as the impact of COVID-related border closures. I developed a game-theoretical framework to illustrate how the international relations of parent countries can influence multinational corporations to form International Joint Ventures (IJVs) as a risk mitigation strategy. This study highlighted that economic parameters alone might not suffice, as the possibility of tariff imposition due to strained international relations is primarily influenced by geopolitics.

CAPM verification in base R

Jan - Feb 2023

Dr AKS Chand, Prof of Economics, IIFT Delhi

I conducted a rigorous analysis to verify the Capital Asset Pricing Model (CAPM) using the R programming language. By collecting and analyzing closing prices of S&P 500 BSE stocks over 15 years, I calculated annualized returns and built a variance-covariance matrix. Additionally, I determined monthly returns for the S&P 500 BSE and performed regression analysis to empirically test the Security Market Line.

Impact of India's Trade Liberalization on Income Inequality

Oct - Dec 2022

Dr. Basanta K. Sahu, Professor & Head Economics Division, IIFT Delhi

In this project, I examined the causal relationship between India's trade liberalization and income inequality while controlling for various income inequality factors. I employed programmed loops in R to calculate Gini coefficients and visualized the relationship between trade openness and income inequality trends over time using trade-to-GDP ratios.

Time Zone Differences, Service Trade, and Implications for Factor Prices (Paper Presentation)

Sep - Oct 2022

Prof Sugata Marjit (First Distinguished Professor of IIFT)

I presented a paper that delved into the impact of time zone differences on international trade and factor markets. By introducing a new dimension to existing trade theories, I explained how time-saving improvements in business-services trade can lead to economic growth, extending beyond conventional trade models.

Estimating Rybczynski elasticity for the case of South Korea using Prof Jones's concept

Aug - Oct 2022

Dr Ranajoy Bhattacharyya, Prof of International Trade, IIFT Kolkata

This project extended the analysis of Rybczynski's theorem to study variations in quantities of two factors of production using Prof. Jones's concept. I collected extensive time series data, performed statistical tests for stationarity, estimated GDP with the translog method, and ran sector-wise time series regression to determine factor endowments and intensities.

Analyzing Intensive and Extensive Margins, Price, Quantitative Margin, and RCA for HS-710239 Diamonds

Aug - Oct 2022

Prof Biswajit Nag, HOD(Economics & Trade Policy), IIFT Delhi

This project involved a comprehensive analysis of India's trade in HS-710239 Diamonds (excluding industrial diamonds) from 2002 to 2019. I assessed the Revealed Comparative Advantage (RCA) between India and partner countries, evaluated intensive and extensive margins, analyzed price and quantitative margins, and highlighted India's trade dynamics in the diamond sector.

DebConf 2021 (Annual conference for Debian contributors)

July - Aug 2021

I presented two talks at DebConf 2021. The first discussed software localization workflows, emphasizing their importance in development and communications infrastructure. The second talk focused on freedom and privacy guidelines, critically reviewing their significance in the context of free and open-source software applications.

LEADERSHIP EXPERIENCE

EIITF (8TH International Conference on "Empirical Issues in International Trade & Finance)

Delhi

Organizing Team Member

Dec 2022

- Coordinated paper presentations and assisted eminent professors, and contributed an essay on the topic of "Reflections on Consequences of Trade Policy, with special reference to India."
- Liaised with many speakers and participants and helped run the event by ensuring the participants knew about it and the narration

IEHE NSS

Bhopal

Core Team Member & Social Media Head

May 2018- June 2021

- Utilized social media to promote events and engaged volunteers and social workers.
- Conducted surveys in villages to identify issues and informed residents about government schemes and social issues.
- Initiated and executed innovative community outreach projects.

AWARDS

- [Secured 3rd position in 100m & 200m sprint in Indian Grand Prix 6 2019](#)
- Participated in 63rd State-level School Games
- Member of FSCI (Free Software Community of India)

REFERENCES

Dr AK Srustidhar Chand, Assistant Professor, IIFT Delhi

Professor and Programme Director

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Tapan Mazumder, Addl Director General of Foreign Trade, Ministry of Commerce

Mentor and Internship Supervisor

- Phone: +91-11-23039445
- Email: tmazumder@nic.in
- Address: Room No. 324, Vanijya Bhawan, New Delhi

Dr Sugandha Huria, Assistant Professor, IIFT Delhi

Professor and Dissertation Supervisor

- Phone: +91 98110 56512
- Email: sugandha@iift.edu
- Address: Room No 711, IIFT Bhawan, Indian Institute of Foreign Trade, New Delhi

Prof Sugata Marjit, Professor of Economics, School of Accounting & Finance, Hong Kong Polytechnic University

Professor and Dissertation Supervisor

- Email: sugata.marjit@polyu.edu.hk