

# Sangeeth Varma

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## Education

- 2020–2023 M.A. Development Studies, Tata Institute of Social Sciences, Mumbai  
2018–2021 M.A. Political Science, Indira Gandhi National Open University  
2014–2018 B.E.(Hon.s) Electrical and Electronics Engineering, BITS Pilani  
2013–2018 M.Sc.(Hon.s) Physics, BITS Pilani

### EXTERNAL COURSES

- 2021 Summer Crash Course on Ecological and Feminist Macroeconomics conducted by the Faculty of Economics and Business, Universitat de Barcelona  
2021 UNCTAD YSI Summer School 2021 on Globalization and Development Strategies jointly organized by the United Nations Conference on Trade and Development (UNCTAD) and the Institute of New Economic Thinking's Young Scholars Initiative (YSI)

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## Experience

- October 2023 – **Internship, Sustainable Food Systems, Council on Energy, Environment and Water**  
March 2024 Worked primarily in the *Climate Smart Agriculture (CSA) Project*, with focus on the institutionalisation of CSA in Bihar and the scaling up of CSA in Odisha. Work included:
- o Investigating the implementation of CSA in Odisha. This involved:
    - Identification and analysis of existing policy instruments in Odisha that had relevance to CSA, their implementation, and institutional linkages.
    - Being a part of the team that conducted field visits to different parts of Odisha, with Focus Group Discussions with farmers, and in-depth interviews with officials from various departments at the district and local levels. The information from the field visits was analysed and used to create recommendations.
  - o Formulating an institutional structure for coordination of CSA in Bihar. This involved analysis of the existing policy instruments and their institutional structures and interviews with various stakeholders, thus identifying the requirements for an institutional structure for CSA programs.
- Other work included:
- o Assisting with literature review for reports.
  - o Assisting with citation for reports.

2021–2023 **Dissertation, M.A. Development Studies**

"*The Scientific Publics in Keralam: A Study of Kerala Shastra Sahitya Parishad During the COVID-19 Pandemic*" :

Examining the activities and discourses of the KSSP, the People's Science Movement of Kerala - historically, as well as in the context of the COVID-19 pandemic - and situating it in the context of the scientific public sphere of Keralam and developmental discourse, in order to examine the response of a decentralised popular movement to changing society and to its crises.

Work included:

- o Review of the literature on the KSSP, on philosophies of science, and on science and society.
- o Finding reports on the activities of the KSSP in newspapers and on the internet
- o Analysing the public-facing communications of the KSSP through its YouTube channel. This involved:
  - gathering the data through a python script;
  - categorising the content by theme, type and relevance;
  - transcribing, translating and analysing the relevant videos.

- March, 2022 As part of a team, designed, conducted and analysed a household-based survey on Multidimensional Poverty Index, Community Well-being, and Institutional Interface in Vashi Naka, Mumbai on behalf of YUVA India. Created a report "*Breaking the Cycle of Poverty: Exploring the Multidimensional Poverty Index and Institutional Interface to Promote Community Well-being*".
- 2017–2018 **Theses for M.Sc. Physics and B.E. Electrical and Electronics Engineering**  
Working in the Quantum Transport group at the Indian Institute of Science Education and Research, Thiruvananthapuram under Dr. Madhu Thalakulam.  
Work included:  
- Theoretical and simulation work on quantum transport systems  
- Designing partially automated data acquisition system. Created software workflows for the set-up of experimental parameters, management of the multiple devices and instruments, and for management of extremely large amounts of data generated from experiments.
- July, 2015 As part of a team, designed, conducted and analysed the results of a *household-based survey to study the status and well-being of the elderly* in the Chullickal ward of the Kochi Municipal Corporation, on behalf of the Corporation and HelpAge India. Created and presented a report to the authorities.

## Skills and Proficiencies

### TECHNICAL

- Qualitative Research Methods
  - Literature Review, Surveys, Interviews, Focus Group Discussions
  - Familiar with software tools for analysis, online surveying, and for transcription and translation
- Statistics and Quantitative Research
  - Proficient with software tools such as , numpy, pandas, polars, Stata, R, SPSS, MATLAB
  - Proficient with tools such as Notebooks for interactive data processing
- Data Acquisition, Management, Processing, Organization and Visualisation
- Computer Programming
  - Languages : Python, some familiarity with lisps and C++
- Basics of audio and video editing, and live-streaming (using open-source tools)
- Basic Web Development
- Hosting and Server Management
- Databases
  - SQL, as well general Relational Database operations
- Typesetting ( $\LaTeX$ )
- Office Software (Word Processing, Spreadsheets, Presentations, etc.)
- General proficiency with scripting, computers and technology

TEACHING Qualified the National Eligibility Test (NET) in Eligibility for Assistant Professorship for Political Science, conducted by the University Grants Commission, India

### LANGUAGES

- Proficient in: English, Malayalam, Hindi
- Familiar with: Tamil, Spanish

## Publication

Sharma, C.H., Surendran, A.P., **Varma, S.S.** et al. 2D superconductivity and vortex dynamics in 1T-MoS<sub>2</sub>. Commun Phys 1, 90 (2018).  
<https://www.nature.com/articles/s42005-018-0091-7>