CHINMAY LOHANI

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EDUCATION

University of Pennsylvania   *Aug 2020 - 2026 (expected)*
PhD, Economics
Courses- Topics in Industrial Organisation, Topics in Applied Microeconomics, Topics in Learning Theory, Advanced Econometrics, Bandits, RL and Transfer Learning.

London School of Economics and Political Science   *Aug 2017 - June 2018*
Master of Science (Distinction), Econometrics and Mathematical Economics (Inlaks Scholar 2017-18)
Courses- Advanced Microeconomics, Adv. Macroeconomics, Econometric Analysis, Contracts & Organisation.

Indian Institute of Science, Bangalore   *Aug 2013 - June 2017*
Bachelor of Science (Research) in Mathematics, First Class (KVPY Scholar 2013-17)
Courses- (PhD) Measure Theory, Topology, Commutative algebra & Galois theory, Complex Analysis, Approximation algorithms, Game Theory and Mechanism Design.

ONGOING ACADEMIC PROJECTS

The Welfare Implications of Government Provided Ground Transport: Evidence from India
with Advait Aiyer, Policy partner: C-STEP
We use bus and train transaction level data sampled from a large Indian state to analyse the value of government provided transport. Using a static entry model that accounts for route externalities, we can speak to the optimal provision of the public option.

Labour Market Frictions, the Organization of Labor, and Structural Change
with Ananya Kotia (Supported by CEPR-STEG SRG grant with $18,000)
We use firm level panel data and quasi-experimental variation to model structural changes in labour force participation in post-liberalisation India.

Optimal Recommendation Systems in Monopolist Platforms
with Jaume Vives-i-Bastida
We write a model for monopolist platforms selling non-durable goods with access to recommendation systems. We show that improved recommender systems interact with the price structure, particularly to consumers who are part of niche markets because of increasing ability of monopolist to screen out non-popular producers.

Innovation Externalities in Vertical relations and Market Structure: Evidence from Mobile Phones
I model innovation externalities on sales in assembled durable goods and empirically evaluate this using mobile phone data. Modelling the decisions to innovate will let me construct counterfactuals under alternative market structures.

Stealing your Attention- Advertisements as Entry Barriers in Consumer Goods
I use individual scanner and ad exposure data to identify the crowding out of new products by large volume of advertisements by CPG incumbents.

Hicks Biased Technical Change and Firm Heterogeneity
with Prof. Ulrich Doraszelski
We analyse firms with heterogenous labour augmenting productivities and show how secular shifts in labour augmenting productivity help explain labour share movements, wage patterns and markup patterns observed in the past few decades.

PROFESSIONAL EXPERIENCE

Research Intern, Microsoft Research   *June 2022 - Aug 2022*
Working with Dr. James Brand
We are working on market design in Spot markets for cloud computing services.

Predoctoral fellow, Energy Policy Institute at University of Chicago   *Aug 2018 - Aug 2020*
Worked as a full time research assistant with Prof. Fiona Burlig.
Managed large datasets; used various research designs- event study, IV, RDD & others to carry out analyses on data; created inputs for papers & presentations. Helped design RCT with information treatments-oversaw survey logistics, presented research to the Government of India & private stakeholders.

Intern, Center for Study of Science, Technology Energy & Policy (C-STEP) *June 2017 - July 2017*
Conducted literature review on designing scalable systems for predicting future water demand in agriculture.
Prepared large database for prediction exercises and validated models on this data.

Researcher: Essays on Differential forms on Riemann surfaces (Honours Thesis) *Sept 2016 - Apr 2017*
Advised by Prof. Subhojoy Gupta
I studied classical Riemann surface theory, Hodge decomposition and explored constructions of discrete analogue of Riemann surfaces. I used ideas from classical theory to prove a characterisation of 1-forms on discrete surfaces.

Research assistant at Machine Learning & Learning theory lab, IISc *May 2014 - Apr 2015*
Advised by Prof. Shivani Agarwal
Studied workhorse methods with a focus on supervised learning: Bayesian Classifier, GMMs, Hidden Markov Models and foundations of statistical learning theory.
Used HMM model to design a basic music identifier application, presented preliminary results.

TEACHING

Econ 002 **Introduction to Macroeconomics** (Undergraduate) at UPenn	*Spring 2022*
Econ 705 **Introduction to Econometrics** (Graduate) at UPenn	*Fall 2021*
RA Boot Camp **Advanced Stata, Spatial data in R** at UChicago	*Aug 2019,2020*

AWARDS, GRANTS AND SCHOLARSHIPS

CEPR-STEG SRG Research Grant ($18,000) *2022-23*
Granted for a joint project on the change of the structure of labour in India.

UPenn University Fellowship *2020-25*
Full funding to pursue PhD in Economics.

Inlaks foundation graduate scholarship (£39,000) *2017-18*
Competitive ($\sim$ 10 per year across India) full ride scholarship to study for a masters degree abroad.

KVPY (Young Scientist) fellowship *2012-17*
Full ride scholarship for high school, undergraduate studies & research awarded by the Government of India after qualifying through a competitive exam and an interview.

INSPIRE Fellowship (declined) *2013-17*
Awarded by the Government of India for securing top 0.1% nationally in high school.

National Chemistry Olympiad (InChO) *2013*
Top 1% merit in NSEC, qualified for the national stage of the International Chemistry Olympiad. (Declined because of health issues)

NTSE scholarship *2009-13*
National merit scholarship to identify talented students and support their high school education.

VOLUNTEER EXPERIENCE

Graduate Economics Society, UPenn	*2022-23*
Coordinator, Battle of Bands Pravega	*2014-16*

Organised the first national level music competition at IISc, brought an international headliner act to perform.

TECHNICAL SKILLS

Advanced: R, Stata, MATLAB
Intermediate: Python, ArcGIS, Java, C++, Julia

REFERENCES

Prof. Ulrich Doraszelski, Joseph J. Aresty Professor at Wharton BEPP, Marketing and UPenn Economics
Prof. Juan Camilo Castillo, Assistant Professor at UPenn Department of Economics
Prof. Fiona Burlig, Assistant Professor at the Harris School of Public Policy at the University of Chicago
Prof. Erik Eyster, Alec P. Alexander Chair of Economics at UC Santa Barbara
Prof. Subhojoy Gupta, Associate Professor of Mathematics at Indian Institute of Science