**Ishan Phadke**

University of North Carolina – Chapel Hill

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## Education

* University of North Carolina, Chapel Hill – PhD in Economics *Anticipated May 2025*
* University of North Carolina, Chapel Hill – MA in Economics *May 2022*
* The Pennsylvania State University – BS in Mathematics & Economics*May 2019*

Schreyer Honors College, Millennium Scholars Program & Paterno Fellows Program

**Research Fields**

* Industrial Organization, Health Economics, Applied Econometrics

**Research & Professional Experience**

* Cornerstone Research (Boston, MA) – Summer Associate*Summer 2023*
* Odum Institute for Research in Social Science – Manuscript Data Verifier*May 2022-Dec 2023*
* Research Assistant – Dr. Katriona Shea and Dr. Jessica M.Conway *Jan 2016-June 2019*
* Lincoln Financial Group (Greensboro, NC) – Actuarial Intern *Summer 2017*

**Working Papers**

* “Rewarding Incremental Innovation: Pharmaceutical Line Extensions” – Job Market Paper

Current market exclusivity policies for line extensions may incentivize manufacturers to delay introducing improved drugs. To address this, I develop a dynamic model solving for firm launch and pricing decisions, considering state-dependent demand. I compare welfare under alternative policies using this model. Applying it to the dementia market, I demonstrate that alternative policies can improve consumer welfare despite increased risk of line extensions not being developed. Through simulations, I evaluate these policies to broaden the scope outside of the dementia market. I find the downside of potentially losing line extensions under alternative policies is minimal, as it’s the lower-quality line extensions that are likeliest to be lost.

* “How Costly are Pharmaceutical Line Extensions?”

I model the additional revenues manufacturers earn from line extensions (LE). I then forecast forgone revenues, for firms that didn’t launch a LE, controlling for differences across drug classes and market competitiveness. With the additional and estimated foregone revenues, I estimate the cost of launching LEs and find that LEs cost 350-510 million, about 25-40% of prior cost estimates for novel drugs.

**Works in Progress**

* “Patient Responses to Formulary Changes” (with Josh Feng and Luca Maini)
* "Creating Hype, Sacrificing Profit? Analyzing Limited Edition Pricing in High-Resale Markets"
* “To Shrink or not Shrink: Evaluating Differences between Firm’s Product Size Decisions”(with Thomas Bollinger and Drew van Kuiken)

**Publications**

* “Analysing How Changes in the Health Status of Healthcare Workers Affects Epidemic Outcomes” *Epidemiology and Infection (2021)*
* “Management Efficacy in a Metapopulation Model of White-Nose Syndrome”*Natural Resource Modeling (2021)*
* “Governance Structure Affects Transboundary Disease Management Under Alternative Objectives”*BMC Public Health (2021)*

**Teaching Experience**

* Course Instructor (UNC) – Introduction to Economics *Summer 2022 & 2024*
* Course Instructor (UNC) – Industrial Organization *Spring 2023*
* Head TA (UNC) – Introduction to Economics*Fall 2024-2025*

Aided instructor with course logistics and managed 12 TAs to help a course of 800 students

* Teaching Assistant (UNC)*Fall 2020-Spring 2024*

Introduction to Economics (x3), Industrial Organization, Labor Economics, Introduction to Entrepreneurship, Advanced Microeconomics

**Presentations**

* Southern Economics Association (SEA)*November 2023 & 2024*
* WUSTL Graduate Student Conference *October 2024*
* Triangle IO Conference*April 2024*
* American Society of Health Economists (ASHEcon) *June 2024*

**Honors/Awards**

* UNC Economics Best Undergraduate Course TA Award*May 2023*
* Pennsylvania State University Outstanding Student in Economics Award*October 2018*
* Eagle Scout

**Leadership/Service**

* Graduate Professional Student Government (GPSG) Senator *Fall 2021 – Aug 2023*

Appropriations Chair & GPSG Stipend Taskforce (2022)

* Cohort Council President – Millennium Scholars Program*2017-2018*

# Skills Advanced: R, Matlab, Stata, Python & Microsoft Office; Proficient: LaTeX; Novice: Julia & SQL

**References**

Brian McManus - Professor of Economics (Co-Advisor) at University of North Carolina



Email: mcmanusb@email.unc.edu

Luca Maini – Assistant Professor of Health Care Policy (Co-Advisor) at Harvard Medical School

Email: maini@hcp.med.harvard.edu

Jonathan Williams – Professor of Economics at University of North Carolina

Email: jonwms@unc.edu

