

Faheem H. Gilani

Department of Economics
University of Texas at Austin
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Citizenship: United States

EDUCATION	Ph.D. in Economics, University of Texas at Austin	2027 (expected)
	Ph.D. in Mathematics, Penn State University	2021
	B.S. in Mathematics, Millersville University	2013
RESEARCH FIELDS	Microeconomic Theory; Game Theory; Decision Theory; Public Economics Research topics: Strategic Experimentation; Ambiguity Aversion; Tax evasion	
REFERENCES	Maxwell Stinchcombe max.stinchcombe@utexas.edu	
	Caroline Thomas caroline.thomas@austin.utexas.edu	
	Vasiliki Skreta vskreta@utexas.edu	
PH.D. COMMITTEE	Maxwell Stinchcombe; Caroline Thomas; Vasiliki Skreta; V. Bhaskar; William Fuchs	
WORKING PAPERS	Tax Design When Firms Can Reduce and Split Activity (job market paper)	
	Poisson Fishing and Phishing—Strategic Experimentation with Renewal with Caroline Thomas	
	Choice over Sets of Distributions with Maxwell Stinchcombe	
PUBLICATIONS	Periodic Orbits on Obtuse Edge Tessellating Polygons Baer, B. R., F. Gilani, Z. Han, and R. Umble. <i>Pi Mu Epsilon Journal</i> (2022).	
	A Bayesian Machine Learning Algorithm for Predicting ENSO Using Short Observational Time Series Chen, N., F. Gilani, and J. Harlim. <i>Geophysical Research Letters</i> (2021).	
	Kernel-based prediction of non-Markovian time series Gilani, F., D. Giannakis, and J. Harlim. <i>Physica D</i> (2021).	
	Approximating solutions of linear elliptic PDE's on a smooth manifold using local kernel Gilani, F., and J. Harlim. <i>Journal of Computational Physics</i> (2019).	

**TEACHING
AND TA
EXPERIENCE**

Teaching

PhD Mathematics Preparation for Economists

Instructor · University of Texas at Austin · Summers 2023–2026

Math 231: Multivariate Calculus

Instructor · Penn State University · Summer 2021

Math 22: College Algebra

Instructor · Penn State University · 2016–2018

TA

ECO 386C: Microeconomics I

TA · University of Texas at Austin · Fall 2026

ECO 420K: Microeconomic Theory

TA · University of Texas at Austin · Spring 2026

ECO 385D: Mathematics for Economics

TA · University of Texas at Austin · Fall 2022, 2023, 2025

ECO 420S: Mathematical Microeconomic Theory with Advanced Applications

TA · University of Texas at Austin · Fall 2024–Spring 2025

ECO 304K: Introduction to Microeconomics

TA · University of Texas at Austin · Fall 2021; Spring 2022, 2024, 2025

ECO 354K: Introductory Game Theory

TA · University of Texas at Austin · Spring 2023

**TECHNICAL
SKILLS**

Python; MATLAB

Numerical methods; time-series modeling and prediction

MISCELLANEOUS

Languages: English (native); Urdu (native)