

UCSC MASTERS PROGRAM IN APPLIED ECONOMICS AND FINANCE

November 29, 2022
January 11, 2023



These slides will be posted at
[https://economics.ucsc.edu/academics/
graduate-program/masters/admissions/i
ndex.html](https://economics.ucsc.edu/academics/graduate-program/masters/admissions/index.html)

Program structure and overview

- One-year program (9 months + 3 weeks required math camp)
- Capstone exam

The program combines **core training** in economic theory with **meaningful applications** that students are likely to face in their professional careers in business, government, non-profit.

- **More applied** orientation **than** a typical **M.A.** program in economics.
- **More training** in economics, statistics, and econometrics **than** most **M.B.A.** programs.
- Stresses **mastery of core principles** in micro and macroeconomics and finance.
- Each student learns how to **solve practical problems** and to **communicate** the results **clearly**.

The emphasis on **advanced econometric techniques**, statistical software **packages**, and large-scale financial and microeconomic **datasets**.



Where do our students go after graduation?

Business

Bloomberg

citi

Genentech

A Member of the Roche Group

Deloitte

Morgan
Stanley

Zillow



pwc

Bank of America

yahoo!

amazon



**SANTA CRUZ
COUNTY BANK**

You Tube



TURTLE BAY

TCL

EY

交通銀行
BANK OF COMMUNICATIONS

HSBC



Expedia

KPMG

中國銀行
BANK OF CHINA

ZipRecruiter



**Pacific Gas and
Electric Company**

**SOUND
PHARMACEUTICALS**

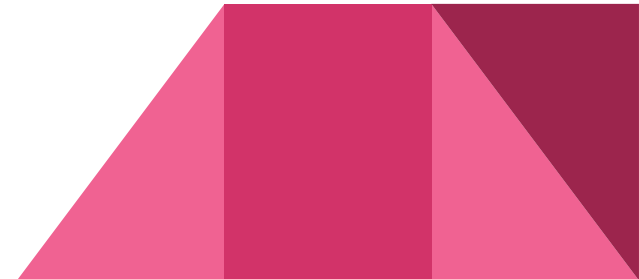
Where do our students go after graduation?

Government

- State Bar of California
- County of Fresno
- Judicial Council of California
- Louisiana Department of Health
- Federal Reserve Bank of San Francisco
- Sunnyvale Community Services
- City of Pasadena
- State Compensation Insurance Fund

Universities

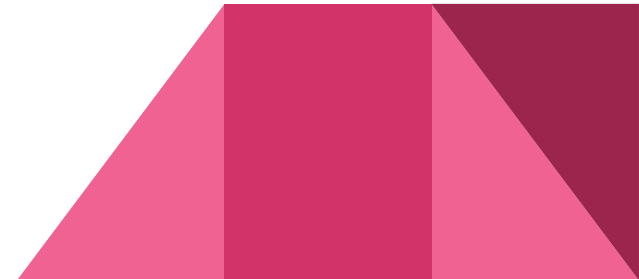
- University of Calgary
- Stanford Institute for Economic Policy Research
- UCSC
- NYU



Requirements

- Math camp (can test out)
- 9 5-unit courses
- 3 labs (2 required one optional)
- Professional development seminars

- Capstone exam in one of the three tracks
 - Applied Economics
 - Finance
 - General



Courses offered (this year, subject to change): Fall

- All:
 - **Micro Analysis (200), Finance 1 (233), Applied Econometrics 1 (216), Stata lab (294A);**

*5-unit courses are in **bold**



Courses offered (this year, subject to change): Winter

- All:
 - **Choice of Econometrics (217 or 114/114L), R lab (294A), Professional development seminar (294B);**
- Applied track:
 - **Public policy analysis (259B), another elective or 2 electives**
- Finance track:
 - **one or both: Financial Institutions and Markets (234) Corporate Finance (235), other electives**
- General track:
 - **Any two electives**

*5-unit courses are in **bold**



Courses offered (this year, subject to change): Spring

- All:
 - **Macroeconomic analysis (202)**, Professional development seminar (294B).
- Applied track:
 - **Micro Applications (201)**, **Financial Engineering (236)** or **another elective**
- Finance track:
 - **Financial Engineering (236)**, **Micro Applications (201)**, **International Financial Management (231)**, or **another elective**
- General track:
 - **Micro Applications (201)**, **Financial Engineering (236)**

*5-unit courses are in **bold**

Faculty (teaching this year)



Jessie Q. Li



Kai Pommerenke



Jeremy West



Subhra Saha



Michael Leung



Robert W Fairlie



Justin G Marion



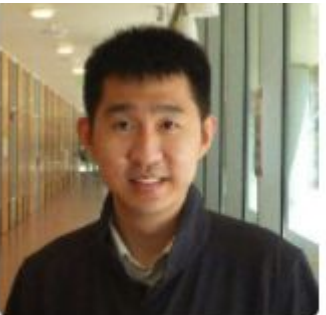
Chenyue Hu



George Bulman



Galina Hale



Dong Wei



Nirvikar Singh

Electives options

- **Economics**
- **Applied Math**
- **Computer Science and Engineering**
- **Environmental Studies**
- **Statistics**

Intermediate Accounting I

Intermediate Accounting II

Intermediate Accounting III

Machine Learning for Economists

Management in the Global Economy

Advanced Econometrics III

International Financial Management

Financial Institutions and Markets

Corporate Finance

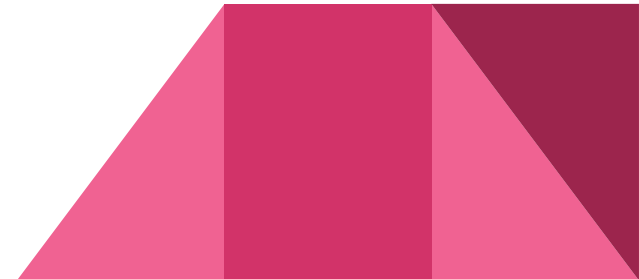
Market Design: Theory and Pragmatics

Public Policy Analysis

Electives options

- Economics
- **Applied Math**
- Computer Science and Engineering
- Environmental Studies
- Statistics

Stochastic Differential Equations



Electives options

- Economics
- Applied Math
- **Computer Science and Engineering**
- Environmental Studies
- Statistics

Advanced Programming

Machine Learning

Analysis of Algorithms

Combinatorial Algorithms

Data Mining

Management of Technology II

E-Business Technology and Strategy

Information Retrieval

Random Process Models in Engineering

Beginning Programming in Python

Introduction to Data Structures and Algorithms

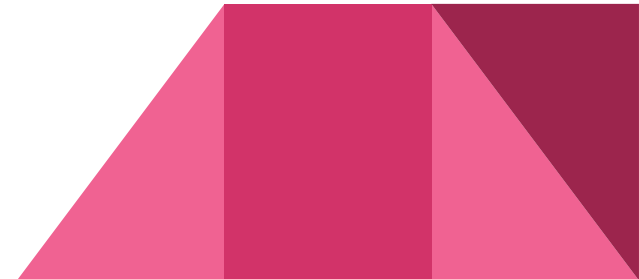
Introduction to Analysis of Algorithms

Introduction to Database Management Systems

Electives options

- Economics
- Applied Math
- Computer Science and Engineering
- **Environmental Studies**
- Statistics

National Environmental Policy



Electives options

- Economics
- Applied Math
- Computer Science and Engineering
- Environmental Studies
- **Statistics**

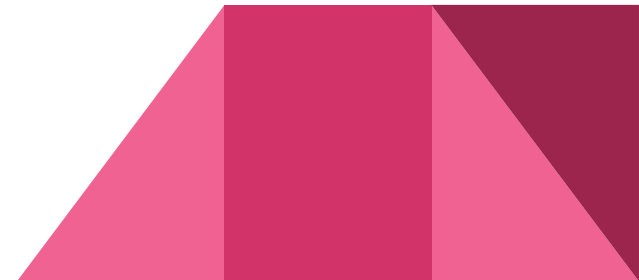
Applied Bayesian Statistics

Intermediate Bayesian Inference

Intermediate Bayesian Statistical Modeling

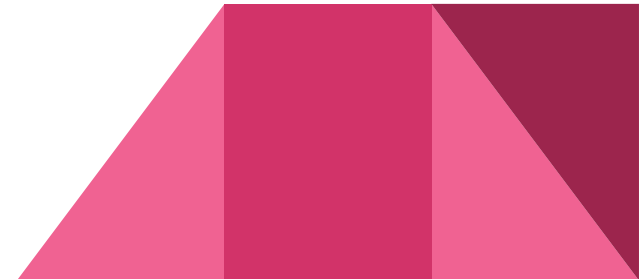
Linear Statistical Models

Spatial Statistics



Professional development seminar

- Alumni speakers
- CV writing
- Job search
- Other professional skills



Three tracks: capstone exam requirements

1. Applied economics

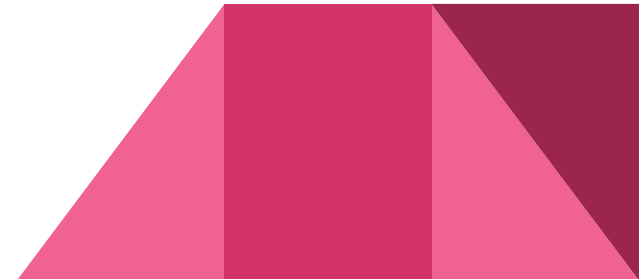
- **200, 201, 216, 217, 259B**
- **Must complete 4 of 5 sections of the capstone exam.**

2. Finance


- **233, 236, 231, 234, 235**
- **Must complete sections 233, 236 and 2 of 3 electives**

3. General

- **200, 201, 233, 236**



Application considerations (apply here)

- Deadline
 - One deadline - **February 28**
 - Is there financial aid available?
 - Yes! Students enrolled in the program may receive **\$2,000-4,000** in aid (approximately 30%), merit-based.
 - TA positions may be available, but not guaranteed
 - What score do I need to get on the GRE?
 - Required
 - An average of **160** in the quantitative section of the GRE and/or **45.6** on the GMAT.
 - What is the average GPA requirement?
 - The average GPA of admitted students is **3.33**
The minimum GPA accepted is **3.0**
- 

Where to get your questions answered?

- Program web site (in progress of update):
<https://economics.ucsc.edu/academics/graduate-program/masters/index.html>
- Galina Hale - program director gbhale@ucsc.edu
- Graduate program coordinator ecngrdcr@ucsc.edu

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Master's in Applied Economics and Finance

