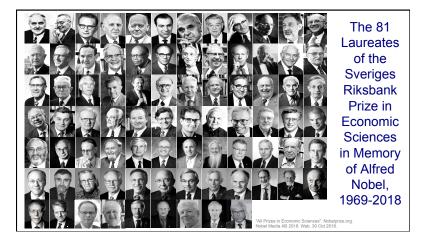
The Economics Profession's Unique Problem with Diversity and Your Unique Opportunity

Amanda Bayer Swarthmore College, Federal Reserve Board

2019 Women in Economics Conference Federal Reserve Bank of St. Louis Historically, economists have been a pretty homogeneous bunch



Economics professors, by gender and by race/ethnicity

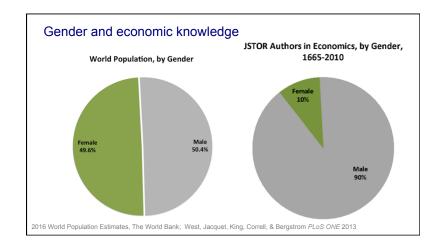
Penale Tenured and Tenure-Track Faculty
Author's calculations based on the 2013-2014 A&A Universal Academic Questionnaire

Black & Hispanic Tenured and Tenure-Track Faculty
Author's calculations based on the 2013-2014 A&A Universal Academic Questionnaire

Washington Post
Oscars 2015: No nominations for a single actor of color or female director

The Atlantic
Oscar Voters: 94% White, 76% Men, and an Average of 63 Years Old
Older and more dude-heavy than just about any place in America and whiter than all but seven states

Reuters



Economics is stronger when people with different experiences and different questions contribute



Former Federal Reserve Chair Yellen

"There has been a fair amount of public debate in recent years about the health of the economics profession, prompted in part by the failure of many economists to comprehend the dire threats and foresee the damage of the financial crisis...

Did the economics profession recruit and

Did the economics profession recruit and promote the individuals best able to bring the energy, the fresh insights, and the renewal that every field and every body of knowledge needs to remain healthy?"

"I am committed to fostering diversity and inclusion throughout the Federal Reserve System...

In my experience, we make better decisions when we have a wide range of backgrounds and voices around the table."



Federal Reserve Chair Powell

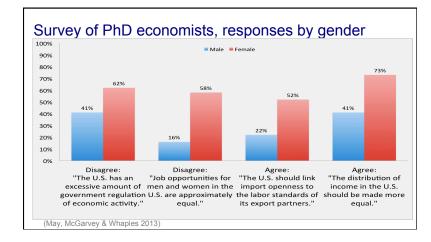
Effects on economic knowledge and policymaking

> Diversity brings a greater range of insights and perspectives

(e.g., Chattopadhyay & Duflo Econometrica 2004; Kamas, Preston & Baum Feminist Economics 2008; May, McGarvey & Whaples Contemporary Economic Policy 2013; Bordo & Istrefi 2018 NBER working paper; Owen & Temesvary Journal of Banking & Finance 2018)

Diverse groups are more innovative than homogeneous groups

(e.g., Woolley et al. Science 2010; Hong & Page Proceedings of the National Academy of Sciences 2004; Phillips, Northcraft & Neale Group Processes & Intergroup Relations 2006; Hoogendoorn, Oosterbeek & van Praag Management Science 2013; Levine et al. Proceedings of the National Academy of Sciences 2014; Freeman & Huang Journal of Labor Economics 2015)



THE MAKING OF HAWKS AND DOVES*

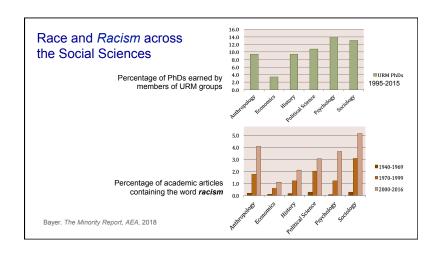
Ulrike Malmendier[†]
UC Berkeley, NBER and CEPR

 $\begin{array}{ccc} Stefan \; Nagel^{\dagger} & Zhen \; Yan^{\S} \\ \textit{University of Chicago, NBER and CEPR} & \textit{University of Michigan} \end{array}$

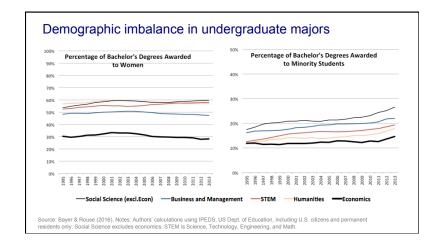
May 1, 2018

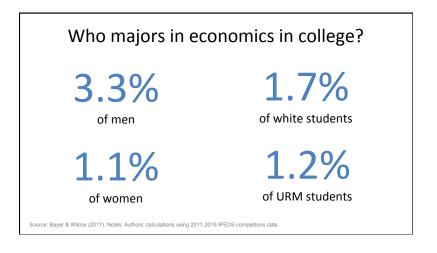
Abstract

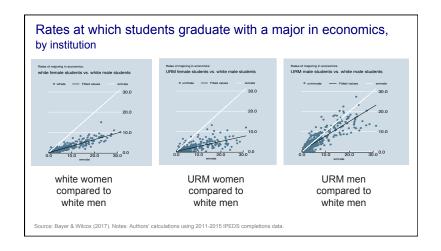
We show that central bankers' lifetime experiences of inflation significantly affect their votes, speeches, and forecasts. Using data on the Federal Open Market Committee's voting history since March 1951, we show that members with higher lifetime inflation experiences are significantly more likely to voice a hawkish dissent. An increase in experience-based inflation forecast by one within-meeting standard deviation raises the probability of a dowish dissent also by about one third, relative to unconditional dissent probabilities. Members with higher inflation experiences also give speeches with a significantly more hawkish tone. Aggregating over all FOMC members present at a meeting, the average experience-based forecast helps predict the federal funds target rate, over and above conventional forward-looking Taylor rule components. In the early 2008, we can attribute 50 to 100 bp to lifetime experience effects. Finally, inflation experiences affect FOMC members' inflation forecasts in their Monetary Policy Reports to Congress, suggesting a beliefs-based channel. Our findings indicate strong experience effects even among experien, and point to the importance of FOMC members' selection.



We have work to do at the undergraduate level







Who is Being Trained in Economics?

https://www.newyorkfed.org/data-and-statistics/data-visualization/diversity-in-economics

The website is based on Bayer & Wilcox (2017), available at https://www.federalreserve.gov/econres/feds/files/2017105pap.pdf

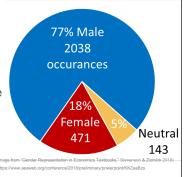
Why do these imbalances exist?

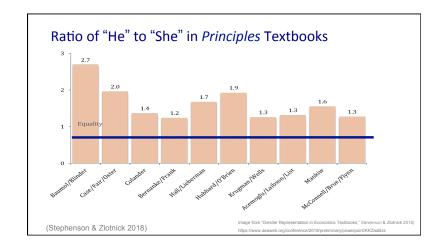
Why?

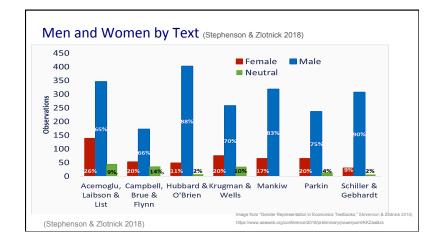
One possible factor: Introductory economics textbooks

- 77% of the people are men
- Imbalance in all categories: economists, made up and ordinary people, celebrities, policy makers, real business leaders.
- Women take fewer actions, are more likely to be involved in fashion, food, or household tasks. Men are more likely to be in business or policy.

(Stevenson & Zlotnick 2018)







What if economics were to provide a more inclusive undergraduate experience?

Welcome+Info treatment



Economics...it's much more than you think

Economists study a wide range of topics



What do effective charter schools have in common?



Why do mothers with medical degrees get fewer C-sections?



What are the economics of the Olympics





(Bayer, Bhanot & Lozano 2019)

Images conviolit American Economic Association: reproduced with permission of the AEAL

A field experiment (Bayer, Bhanot & Lozano 2019)

- Study population: 2,710 incoming college students from underrepresented groups, including all women, at 9 liberal arts colleges
- Randomization: at the student level within schools
- Treatments: two emails sent in the summer before students arrived on campus
 - Treatment 1 "Welcome"
 - Treatment 2 "Welcome+Info" showcasing a diversity of research and researchers within economics
 - Control No messaging from the economics department
- · Main outcome: whether the student completed an econ course in their first semester

Treatment 1 – Welcome; Treatment 2 – Welcome+Info

Email #1

Congratulations on your decision to attend [YOUR College]! We in the Economics Department welcome you and would like to get to know you over the next four years. We hope that you start by taking [Econ#, NAME, LINK] in the coming year. Please click on the images below to learn a bit about what economists do and the kinds of things you can investigate with the tools you learn in economics courses.

Sincerely.

Professor [NAME], on behalf of the Economics Department

Email #2

Welcome to campus! We are excited you are here! We encourage you to explore courses across campus, and we especially hope to see you in [Econ#, NAME, LINK]. Please click on the images to learn some more about economists and their research.

Best wishes for a great semester,

Professor [NAME], on behalf of the Economics Department

(Bayer, Bhanot & Lozano 2019)

Welcome+Info treatment

Meet Some Economists:



<u>Lashawn Richburg-Haves</u>. Senior Research Associate, MDRC "My own neighborhood is always at the back of my mind."

Mark Hugo Lopez, Director of Hispanic Research, Pew Research Center

"I should have had more confidence in myself...Nothing happens unless you make it happen. You aren't sought; you have to seek."

Janet L. Yellen, Chair of the Board of Governors of the Federal Reserve System

"When economics is tested by future challenges, I hope that our profession will be able to say that we have done all we could to attract the best people and the best ideas."

Bookmark the American Economic Association's: Resources for Students

Explore a wide range of topics:



Can strong peer networks close the gender gap in entrepreneurship?

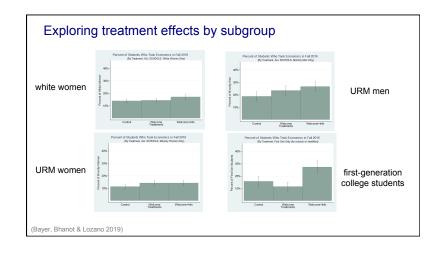
Can a nearby SAT test center boost college attendance?

Do employers frown on for-profit colleges and online degrees?

(Bayer, Bhanot & Lozano 2019)

[Images copyright American Economic Association; reproduced with permission of the AEA]

| Main result | Table 1: Average Treatment Effects | | | |
|-------------|------------------------------------|-----------------------|-----------|-----------|
| Main roodit | | Took Econ - Fall 2016 | | |
| | | (1) | (2) | (3) |
| | Welcome | 0.0151 | 0.0117 | 0.01000 |
| | | (0.0172) | (0.0170) | (0.0168) |
| | Welcome+Info | 0.0296* | 0.0289* | 0.0281 |
| | | (0.0176) | (0.0175) | (0.0173) |
| | Female | | -0.123*** | -0.119*** |
| | | | (0.0254) | (0.0264) |
| | Constant | 0.152*** | 0.333*** | 0.266*** |
| | | (0.0120) | (0.0383) | (0.0414) |
| | Observations | 2710 | 2710 | 2710 |
| | R^2 | 0.001 | 0.027 | 0.048 |
| | Ethnicity Fixed Effects | No | Yes | Yes |
| | School Fixed Effects | No | No | Yes |



How can you make the most of this opportunity?

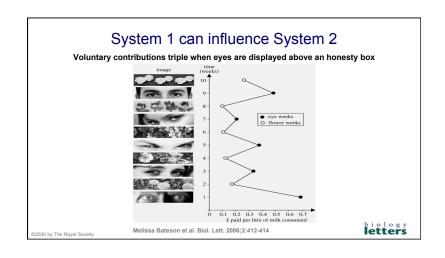


Daniel Kahneman: Thinking, Fast and Slow

Two systems in the mind—

- System 1 is automatic, using easily available information.
- · System 2 is conscious reasoning.

System 1 is the "secret author" of many of our "choices."





Keep looking beyond the obvious and help others do the same. Keep learning economics, and use it to examine issues important to you. Believe in yourself. Hold a growth mindset. Intelligence and abilities in math and economics are not fixed traits. They expand through effort, practice, mistakes, and perseverance. Be different. Your uniqueness makes you powerful.