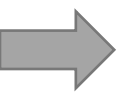


Welcome to the world of Econometrics





This is me!

Pedram Jahangiry

Professional Practice Assistant Professor

Department(s):

Economics and Finance



Contact Information

[!\[\]\(3211b5d1d968fc1665909b34f9f16010_img.jpg\) Eccles Business Building 507](#)

[!\[\]\(6059a5aa8b4ca7bb793408023d6c6e42_img.jpg\) 435.797.2345](#)

[!\[\]\(c50c8b7b2cc2cf9ff925edec0ee94c0d_img.jpg\) pedram.jahangiry@usu.edu](mailto:pedram.jahangiry@usu.edu)

[Personal Website](#)

[Curriculum Vitae](#)

Education

PhD, Economics, Arizona State University, 2017

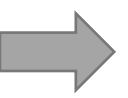
Master, Economics, Simon Fraser University, 2013

MBA, Sharif University, 2012

Industrial Engineering, IUST, 2009

Biography

Pedram Jahangiry, PhD, CFA, is an assistant professor in the Economics and Finance Department of the Jon M. Huntsman School of Business at Utah State University. Prior to joining the Huntsman School in 2018, Pedram was a research associate within Financial Modeling Group at BlackRock NYC. His research is involved in machine learning applications in finance, empirical asset pricing, and factor models.



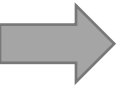
Meet The TAs



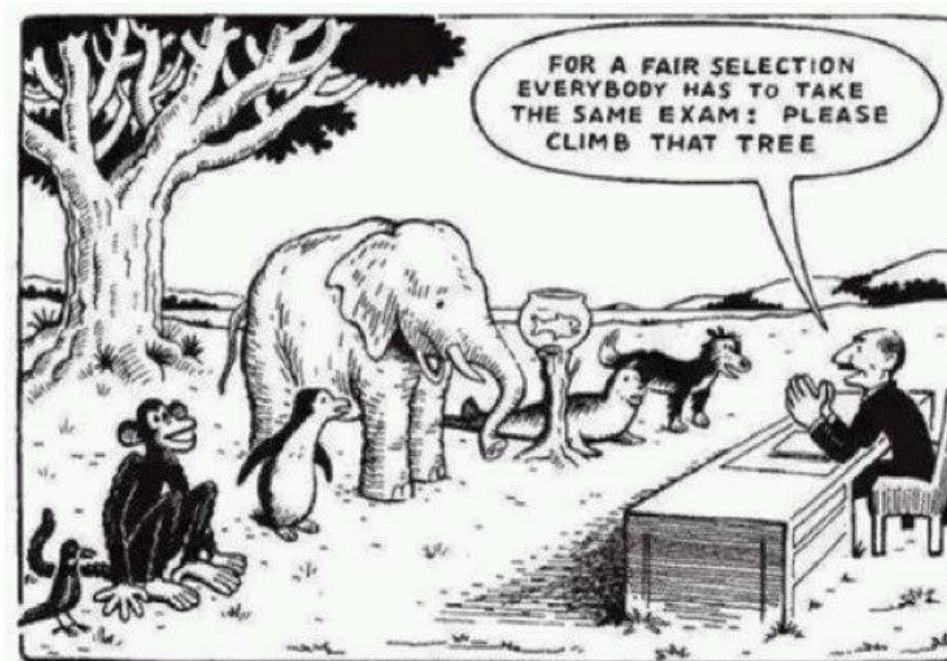
Rachel Idso



Aflatun Kaeser



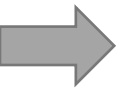
My Teaching Philosophy



Our Education System

"Everybody is a genius. But if you judge a fish by its ability to climb a tree, it will live its whole life believing that it is stupid."

- Albert Einstein



My Teaching style!


More focus on interaction
and **application in class**
while putting more
lecture-like material
online


Classroom time will be
used more to **make**
mistakes in a safe
environment


Balancing learning-by-
studying with **learning-**
by-doing





What's on Canvas?



UTAH STATE



Account



Dashboard



Courses



Groups



Calendar


Inbox


History


Commons


Help



Spring 2022

ECN-4330-001 > Modules

Home

Syllabus

Announcements

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Assignments

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Quizzes

People

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My Media

Submit Grades to Banner

COVID Accommodations

Outcomes

Collaborations

Modules

Rubrics

Settings

Collapse All

View Progress

+ Module

Navigation

Tentative course schedule

OneNote (Whiteboard)

GitHub repository for the course

YouTube playlist

Upcoming quizzes and exams

Class 2 quiz- what is econometrics?

Jan 11 | 5 pts

Classes (Jan 10-12)

Class 1- Welcome to ECN 4330

Class 2- What is econometrics?

→ Big picture



What are we trying to do as a researcher?



Solve real world problems, right?



Is there a theory?

What is the **relationship** between

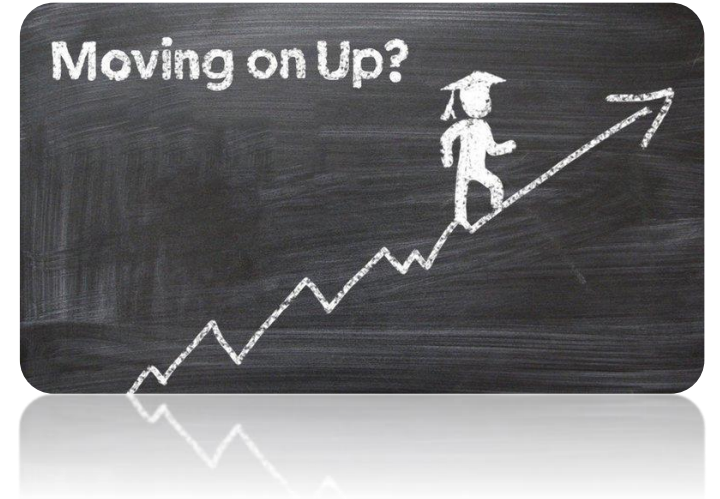
- Sales and advertisement / R&D expenditure / seasonality / industry / ... ?
- Quantity demanded and price / income / technology / price of competitors / ... ?
- Wage and education/ age/ gender/ experience/ ...?

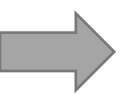
➔ A simple example

- Let's see if we can predict your future salary! (is there a theory?)
- What are the drivers:
 - Education, age, experience, IQ, ...
 - Ethnicity, race, gender, ...
 - Industry, location, working hours, ...
- Let's build a model (**assuming** a linear functional form!)

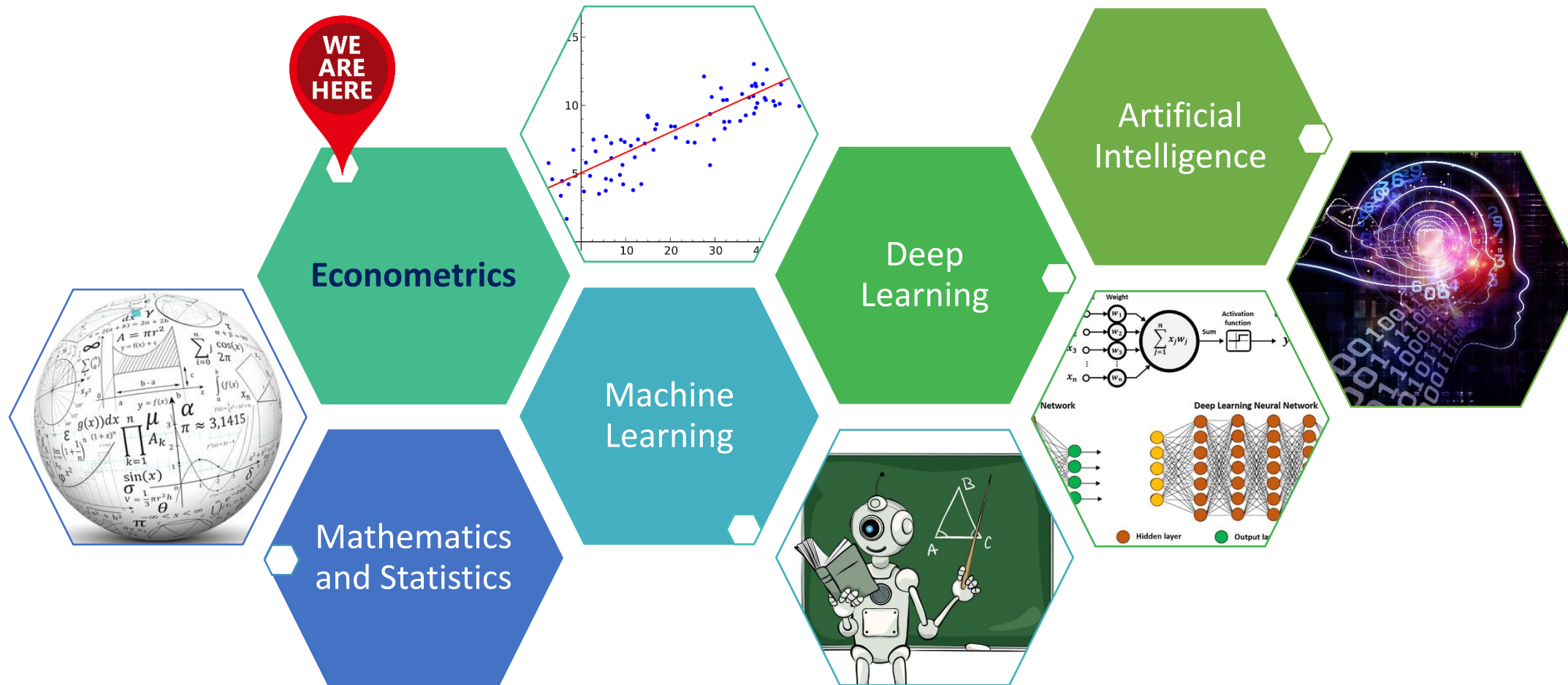
$$wage = \beta_0 + \beta_1 educ + \beta_2 age + \beta_3 exper + \beta_4 IQ + \dots + \beta_k hours + u$$

- Can you **interpret** this model? Do you care about the interpretability?
- Can you make **predictions** using your model?





Where we are?



➔ My Goal!



1. Enable you to become intelligent readers of others' econometric analysis.
Go beyond accepting all results at face value!
2. Teach you to conduct elementary econometric research.
3. Prepare you to take more advance courses like machine learning and deep learning.

➔ Why should I learn it?

- ✓ It is a bid deal
- ✓ Enables you to support your story with facts
- ✓ It is closely linked to data science
- ✓ Better Career Opportunities
- ✓ Better salaries
- ✓ Hedge against next recession

SIMPLE REGRESSION MODEL

$$Y = \beta_0 + \beta_1 X + u$$

Dependent Variable β_0 Intercept Parameter β_1 slope parameter X Independent Variable u error term

@unofficially econ

You will be surprised to see what you can do
when someone is counting on you!

I am counting on **YOU**

