

HUDK 5053: FEATURE ENGINEERING STUDIO

9/10/19 11:05 AM

In the news



What Changed in How the 2020 Best Colleges Rankings Were Calculated?

DAILY NEWS

New Education Dept. data paints less rosy picture of school bus debut on 1st day of classes



Here's how much college cost the year you were born

Forbes

We're Spending \$11B on Education Technology: How Do We Know If It's Working?

Bloomberg

When Elon Met Jack: Musings on AI, Mars and the End of Civilization

Events

Title	Date - Time	Location
Research at Amazon AWS	09/11 - 12:00pm	Davis Auditorium
<u>Rapid Response Research in DS</u>	09/13 - 12:00pm	1406 Nth Corner
<u>Our Tech Futures</u>	09/21 - 10:00am	Columbia
<u>AI in the Classroom</u>	09/20 - 3:00pm	YC
<u>Careers in Data Science in Ed</u>	09/25 - 3:30pm	TC
Formal & Informal LA (lunch)	10/4 - 11:00am	GDH 449

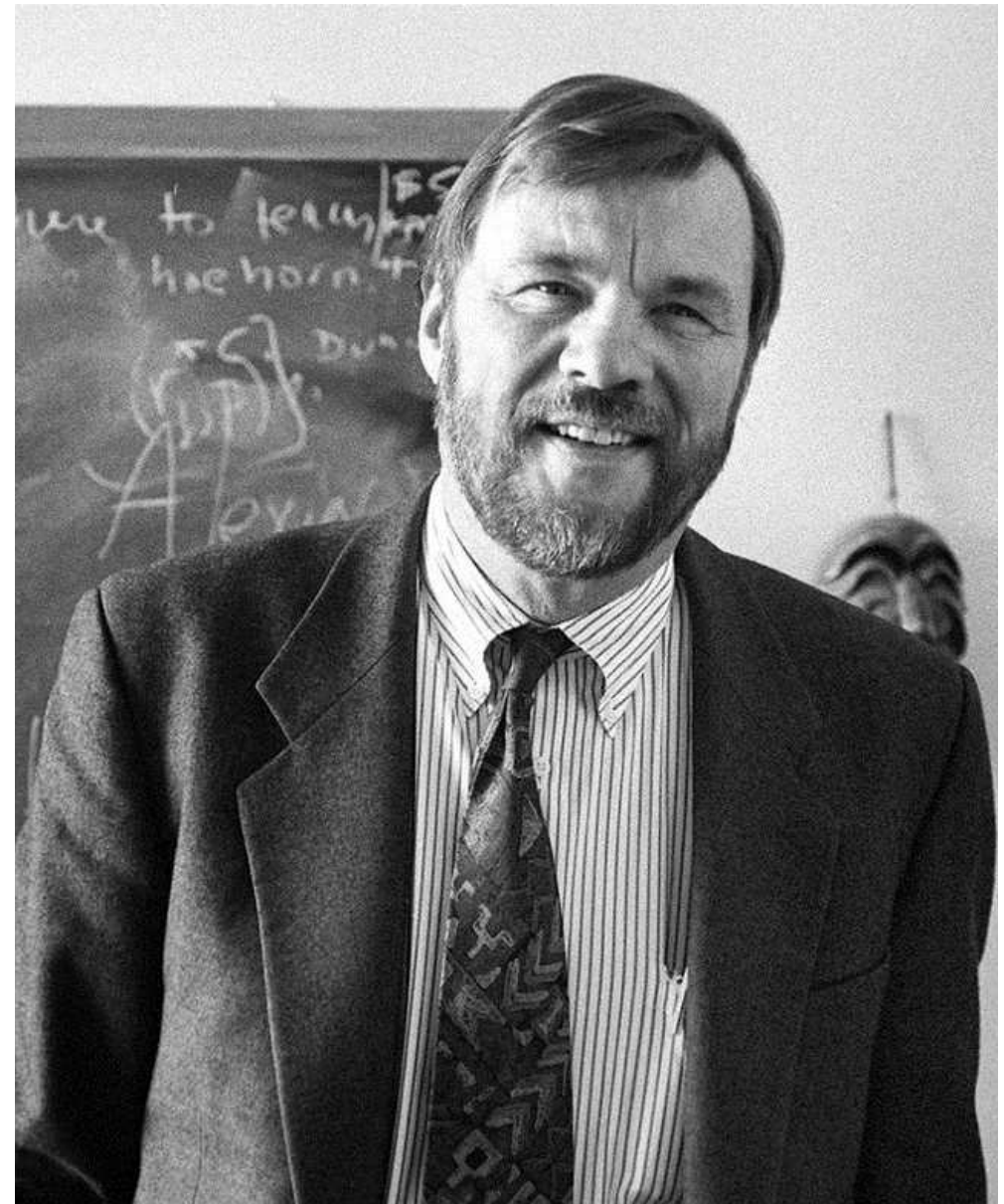
Please Sign Up Now On
Github

[https://github.com/feature-engineering-
studio/syllabus](https://github.com/feature-engineering-studio/syllabus)

Teams

When people work together to build a house, will the job probably

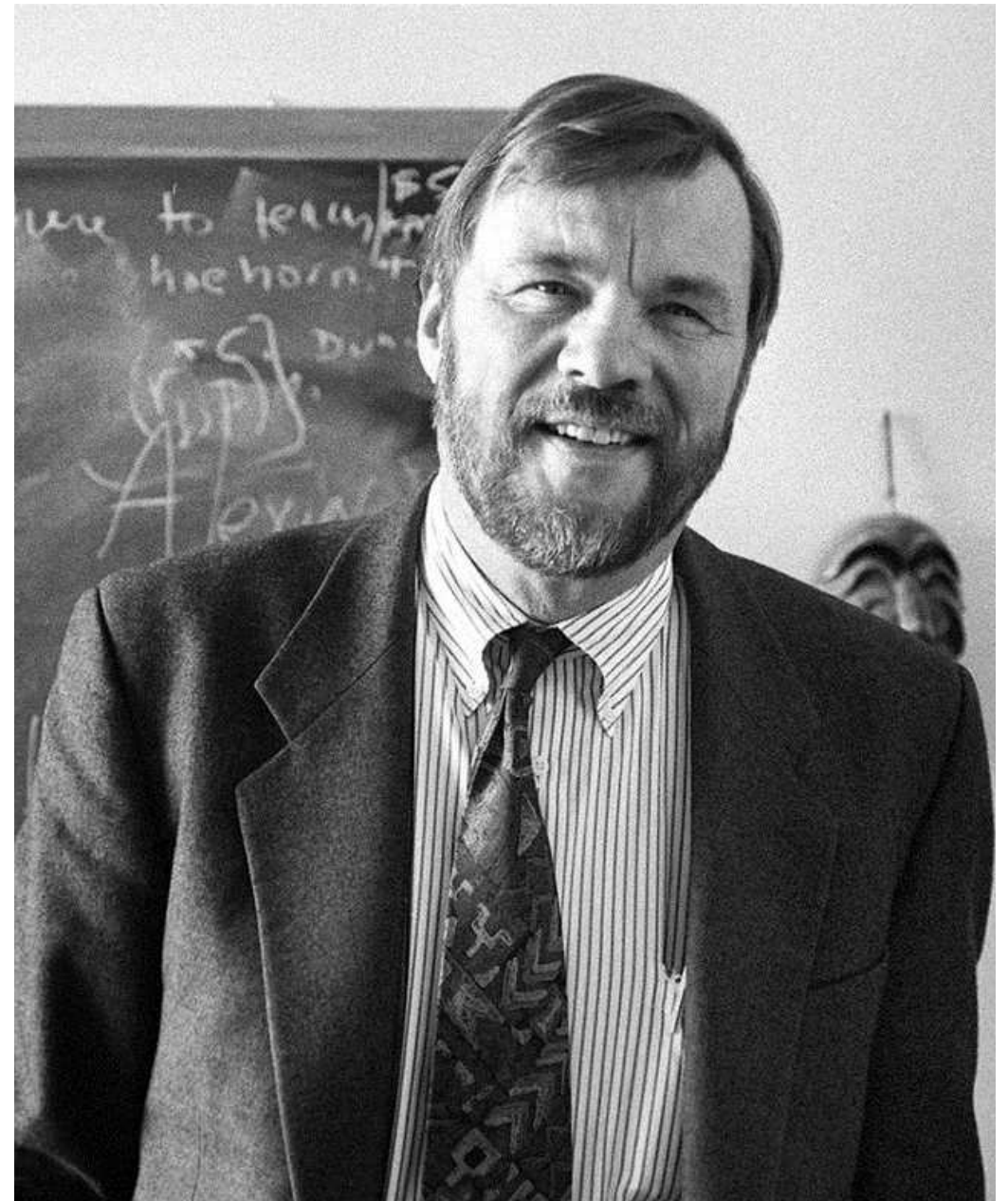
- (a) get done faster
- (b) take longer to finish, or
- (c) not get done



Richard Hackman

Teams

- Make sure you know who is on the team?
- Compelling direction
 - Involves authority/ Emotionally demanding/angst
- Harmony \neq Harmony
- The first few minutes of the first meeting set up the team for success or failure
- Group size < 6



Richard Hackman

Meetings

Why have them?

Optimist:

- Disseminate information
- Build mutual understanding
- Group problem solve

Pessimist:

- Disperse responsibility
- Dilute authority
- Delay decisions

Realist:

- People are social and understand things socially
- Group identity

Meetings

How to have a meeting:

- 4 Ps
 - ▶ Purpose
 - ▶ Process
 - ▶ Preparation
 - ▶ Pacing



Notes

YOU WILL TAKE NOTES IN YOUR MEETINGS

- Signals that you are invested
 - Therefore, do it visibly (not on a phone)
- Allows you to stay on track
- Allows you to follow up
- Every person should take notes because no one will cover everything
- One person should collect notes and send a summary
- Note taking resource: http://hilt.harvard.edu/files/hilt/files/notetaking_0.pdf

Authority

- Be mindful of exerting authority
- There is always a risk causing angst
- Always ask yourself, “Why do I care?”

Exercise

The theatre department of a prestigious college is interested in “Learning Analytics”. The dean of the department believes analytics “is the future” and is “vitally important” to the survival of the theater program. They currently make available to their faculty a learning management system but it is under utilized. Several faculty have completed interesting programing using technology with their students.

The head of IT has approached you to work on learning analytics for the theater department.

Strategize with your group about how to approach your first meeting with the head of IT. What information would you be looking to gain? What problems do you foresee? What ideas, if any, would you float?

Project Management

- 1. Agree on the success criteria and major constraints**
- 2. List tasks**
- 3. Estimate times and costs for each task**
- 4. Assess dependencies and draw critical path - how long will project take**
- 5. Consider crashing, overlapping tasks or bottlenecks (including people)**
- 6. Draw Gantt chart**
- 7. Calculate resource requirements over time (adjust using non-critical tasks)**
- 8. Assess risks and prepare contingency plans**