

The Imperative to Rewiring and Retooling in the Age of AI

Tom Andriola

Vice Chancellor for Information Technology & Data
Chief Digital Officer



Tom Andriola

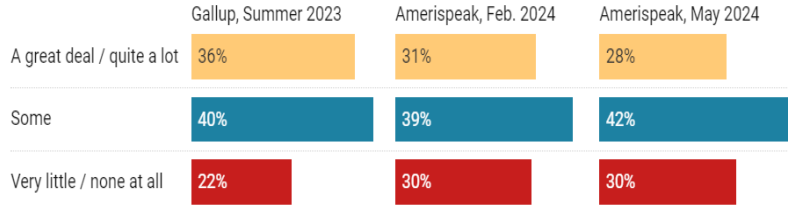
Current Roles:

- Vice Chancellor and Chief Digital Officer
- Responsibilities across research, education, patient care, innovation & corporate collaborations
- Advisor for a variety of UCI research units and external organizations in public and private sector
- Host, Digital Squared podcast
- Thought leader & speaker on a variety of technology, data, AI and change management topics

Past Experiences

- VP & Chief Information Officer for UC System
- Chief Information Officer for UC Health
- General Manager of healthcare technology businesses, including EMR, Radiology, Cardiology, & Critical Care
- Enterprise CIO with oversight of 8500 technology professionals and shaping \$1.3B annual spend portfolio
- Led global business process & technology transformation
- Serve on boards in health-tech and education-tech spaces

Americans' Confidence in Colleges and Universities Reaches New Lows



Note: Gallup asked about "higher education" and did not include "none at all" as a response option.

Chart: Nathan Honeycutt • Source: FIRE / NORC • Download image • Created with Datawrapper

Escalating cost of attendance

Erosion of educational quality



Curriculum relevance

Ideological debate

Increasing value of substitutes

Administrative bureaucracy

Heavier oversight & regulation

Workforce readiness

Underemployment



Rewire



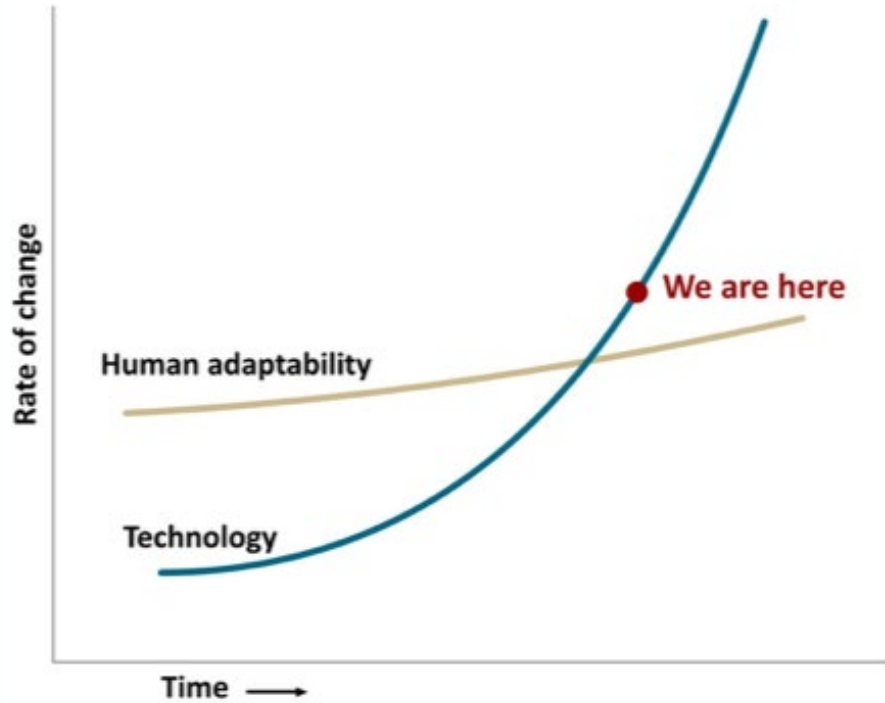
Retool



Mindset
Shift
To
A New
Normal



Eric Teller's graph of human adaptability versus exponential technological change



Source: *Thank You for Being Late*, Thomas Friedman, 2016, p. 32.



“Mindsets before toolsets”

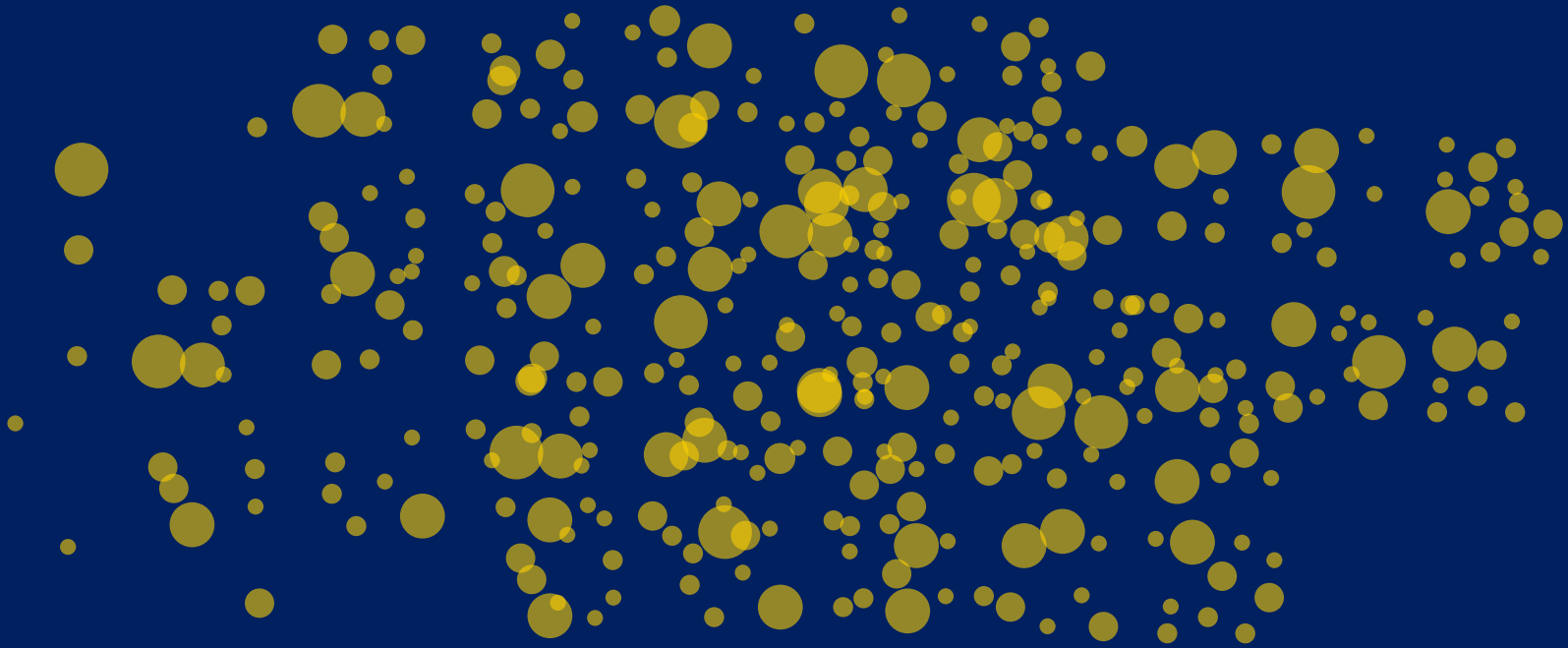
*-- Provost Charles Isbell,
University of Wisconsin–Madison*

How have we approached
the topic of AI?

AI @ (across) UCI – FY/AY 2023-24

Recognizing AI as a general-purpose technology (GPT)

Accelerating the Journey: Investigate => Experiment => Learn => Prototype => Deploy => Scale



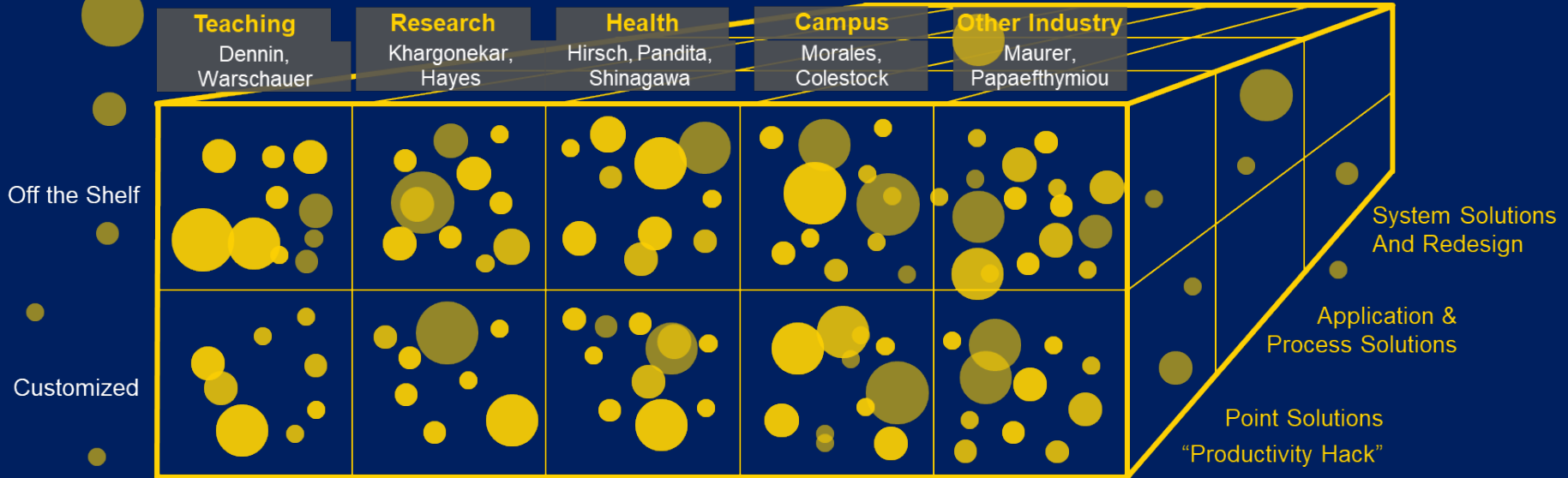


Inspiring Action & Overcoming Risk Aversion

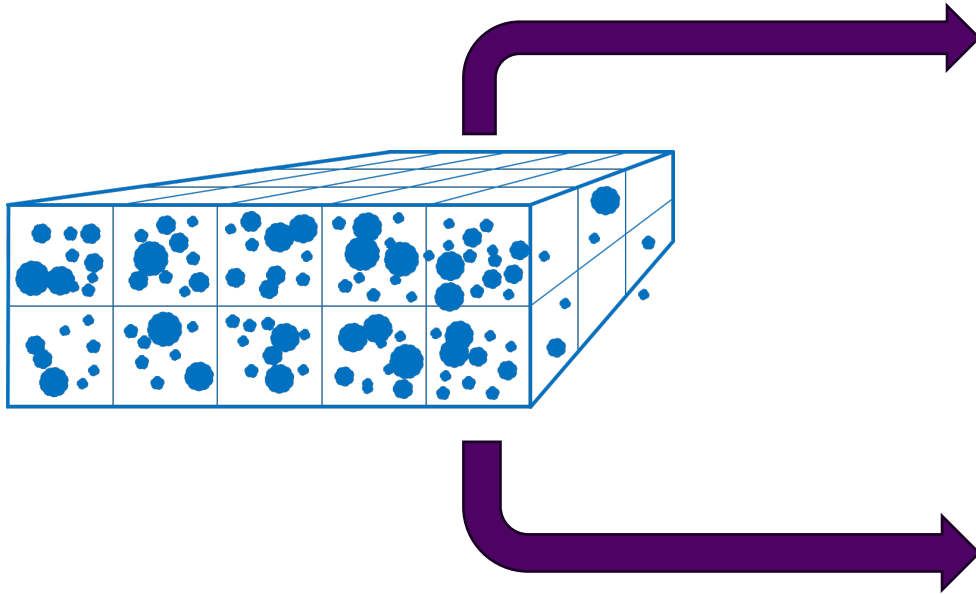
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AI @ UCI – From Framework to Innovation & Value

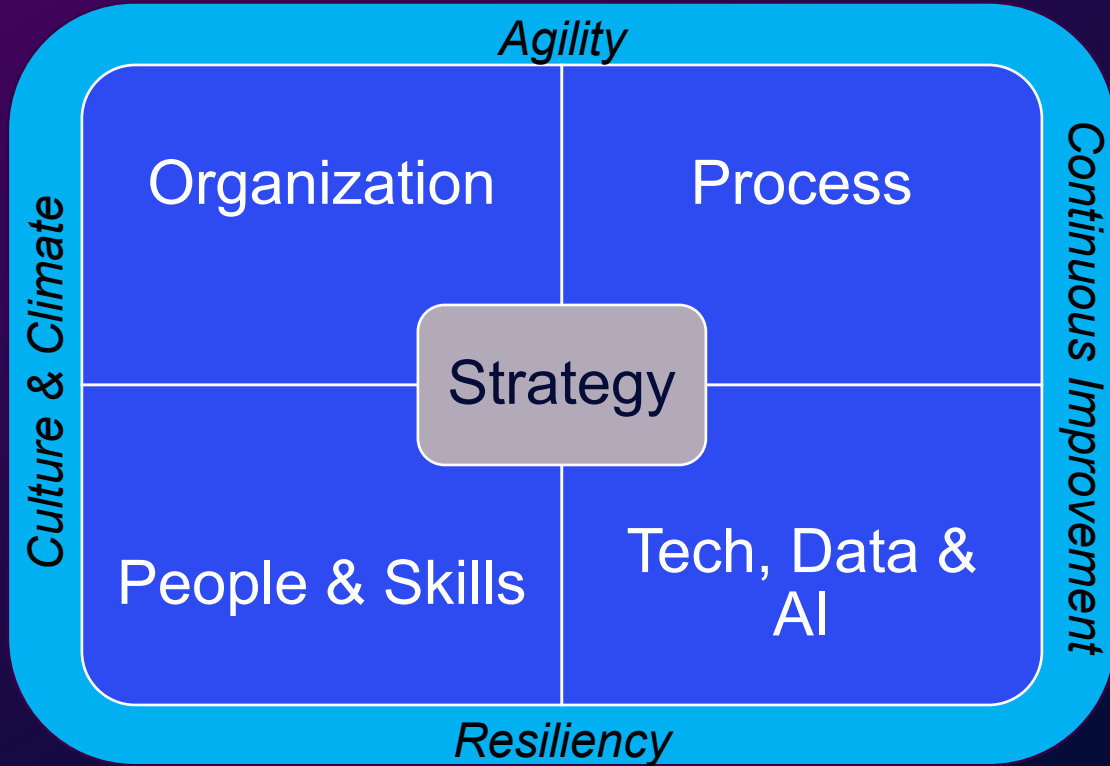


UCI Beall Applied Innovation

- Align w Institutional Themes
- Intellectual Property
- Tech Transfer
- Commercialization
- Startups

WORK
Reimagined
2.0

- Increase understanding & literacy
- Make part of the culture of innovation
- Efficiency / Savings
- Enhanced Experiences



*A mentality and culture
of continuous
improvement*

Work Reimagined 2.0 has lots of organizational scaffolding

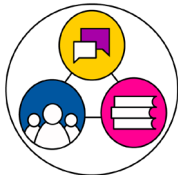


Enterprise **operating model** for Experimentation, Innovation & Transformation (Work Innovated)



Workforce Upskilling, Cross-skilling for Digital Transformation

- Literacy & competency building
- Prototyping / Sandboxes
- Gigs (Short term assignments)



Student Career Readiness - Hands-on skills with today & tomorrow's technologies solving real-world problems & leading experimentation



Extending capabilities externally into Workforce & Economic Development Programs (building connections & ecosystem)

Gartner®

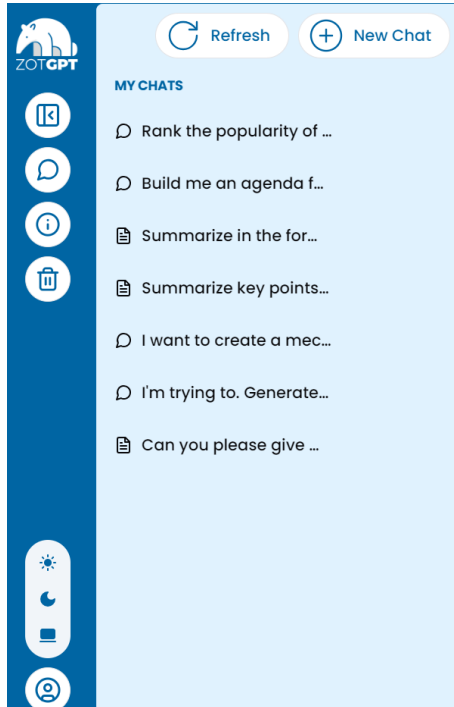
EVOLVE
UCI OIT | Talent Enhancement Program

udemy


ZOTGPT



Fall Release



Version 1.0

- Announced Jan-10, 2024
- Opened up for student use April 2024
- Access to different models
- Basic chat function
- Safe, protected space
- GOAL: Encourage understanding & experimentation

UCI ZotGPT Chat

- UCI ZotGPT Chat protects your privacy. [Learn more.](#)
- Questions? Email oit@uci.edu with the subject line "ZotGPT Chat Question".
- Please avoid entering protected health, HIPAA, financial, SSN or any other [P4 Information](#).

UCI ZotGPT Chat

Welcome to UCI ZotGPT Chat. You should interact in a friendly manner with the AI assistant and refrain from participating in any harmful activities.

You can start a new chat with me by clicking the button below.



Version 2.0

- **Still a safe, protected space**
- **API access (researchers)**
- **Enable building own GPT**
- **Mgmt. tools: Monitoring, billing**
- **RAG Search, e.g., AI tutor, course support/Class Chat**
- **Plug in your tools on/into ZotGPT platform**
- **Education on use, limitation vs. commercial services**



Gen AI Starter Paths



Tom Andriola (He/Him) • You

Chief Digital Officer

1d • 🔒



I've talked before that reskilling in the Age of AI is an "all of us" thing. Everyone needs to be figuring out how these tools work and how they can create better outcomes. At UC Irvine we're taking this seriously by launching 19 new Generative AI learning paths on [Udemy](#), our chosen online learning platform. These new courses are designed to enhance [#GenAI](#) skills, offering valuable insights and knowledge tailored for a range of professional roles. It's open to all – faculty, staff, medical professionals, AND our students. It's not if; it's WHEN and when is NOW.

🔍 Some of the new learning paths include:

GenAI for Data Scientists ...more

👍👏👤 Laurel Skurko and 37 others

1 comment • 3 reposts



Cross Pollination

UCI Office of Undergraduate Admissions

Discover | Study

You are speaking with Peter the Anteater

First Name *

First Name

Last Name *

Last Name

UCI Student Affairs Admissions Current Students UCI Parents Map

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UCI Student Affairs

Student Life & Leadership

Apply

Student Affairs

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You are speaking with Pete from Student Affairs

First Name *

First Name

Last Name *

Last Name

current

Monthly Trend

Rate

2020

not marked with

UCI Paul Merage School of Business

WHY MERAGE PROGRAMS RESEARCH & FACULTY CENTERS CAREER CENTER ALUMNI NEWS EVENTS GIVE APPLY

Master of Innovation and Entrepreneurship

APPLY EVENTS CONTACT

EMPLOYEE EXPERIENCE CENTER

UCI'S SINGLE SOURCE FOR EMPLOYEE SUPPORT

knowledge articles and answers to questions or issues you have.

Master of Innovation and Entrepreneurship

Join the UCI Innovation and Entrepreneurial ecosystem. Available in a 9-month or two-year option. Fall 2024 applications are now open.

MEET WITH AN ADVISOR >

Talk to us to see how our program can help jumpstart your career.

and the HR catalog

YOU NEED? Select a category to open a new case for problem resolution.

- Benefits Administration
- Employee Relations
- Learning & Development
- Leave and Disability Administration
- Onboarding / Talent Acquisition
- Programs & Initiatives
- Talent Management
- UCPath
- General

Early Peer Adopters are Great Change Champions



AI COPY EDITING

Human generates a composition that an AI edits



AI BRAINSTORM

AI generates ideas that drive a human composition



AI COMPOSITION

AI generates a composition almost entirely without human involvement

LOW AI USE



HIGH AI USE



AI CRITIQUE

AI gives opinion on the ideas of a human composition



AI ROUGH DRAFT

AI generates an initial composition that a human revises

Prompting Tips Example

I am a professional at the University of California Irvine. I am going to provide you with a composition that I have created and relates to my discipline.

This composition is going to be shared with my peers. As such, I want to ensure my writing is articulate, convincing, well-structured, and grounded in clear reasoning. With that in mind, you are going to act as my copy editor. You are not here to please me by simply complimenting my work. Instead, you are here to make my writing the best it can possibly be.

To accomplish this goal, analyze the composition I give you. Then do the following:

Create a table with two columns:

Column 1: A brutally honest critique of the first paragraph of the composition. Consider multiple factors in this critique, and ensure you are detailed. Focus less on what I need to do and more on why the critique is valid.

Column 2: A paragraph that provides suggestions for improvement to the composition based on the critique you gave. Structure the suggestions as actions I can take to make the paragraph better.

Repeat this process by adding additional rows to the table for each additional paragraph.

Let me know if you understand, and I will provide you with the composition.

**ESTABLISHING THE
CONTEXT**

DETAILING THE GOAL

**GIVING DIRECT
INSTRUCTIONS**

**CHECK FOR
COMPREHENSION**

AI prompt library:

bit.ly/uciaiprompts



Generative AI in Action: Practical Use Cases

INSTRUCTION



ASSESSMENT BUILDER

Assist faculty in brainstorming and creating authentic, real-world assessments that effectively measure student comprehension.



RUBRIC GENERATOR

Assist faculty in creating detailed, student-friendly rubrics for assessing performance on college-level assignments.



ANALOGY COMPOSER

Assist faculty in creating metaphorical, humorous, and historical analogies to explain new academic concepts to students.



CASE STUDY GENERATOR

Generate customized academic case studies for students, tailored to specific disciplines and focus areas provided by the user.



SOCRATIC TUTOR

Facilitate deep understanding of a topic through the Socratic method by asking open-ended questions and spurring critical thinking.



SYNTHETIC LEARNER

Engage in a conversation with a synthetic learner as a means of demonstrating mastery and receiving critical feedback.

PRODUCTIVITY



CONTENT SUMMARIZER

Create concise summaries of provided content, highlighting main ideas and key takeaways.



VIDEO OUTLINER

Convert video transcripts into concise, text-based outlines highlighting key points discussed.



COPY EDITOR

Act as a detailed and critical copy editor, providing comprehensive critiques and suggestions.



PROJECT ANALYZER

Identify and resolve project issues by reviewing documentation and communications.



DATA INTERPRETER

Assist users in analyzing data to provide actionable insights and deeper investigative suggestions.



JOB INTERVIEWER

Simulates a job interview by generating relevant questions and offering feedback on responses.

IDEATION



VIRTUAL IDEATOR

Provide diverse insights and recommendations on an idea or problem from six distinct virtual personas.



INNOVATION INCUBATOR

Guides users through a structured process to develop an action plan for exploring innovations in their chosen field of interest.



THOUGHT MIXER

Generate and combine creative ideas on any topic to stimulate thought-provoking discussions.



DEVIL'S ADVOCATOR

Assist users in developing thorough and balanced debates by developing arguments on opposing sides of an issue.



ROLEPLAY ANYTHING

Create immersive roleplay experiences by helping users develop detailed characters and engaging scenarios.



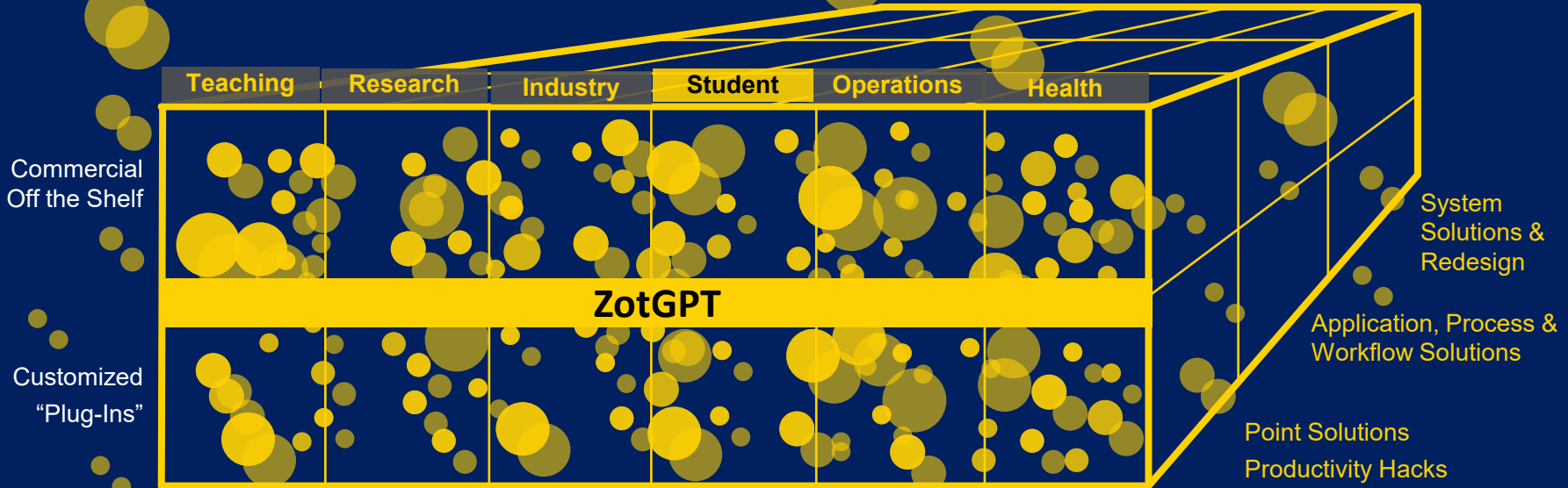
CONVERSATION COMPOSER

Enhance the realism of case studies by creating detailed and authentic stakeholder conversations.

AI @ (across) UCI – FY/AY 2024-25

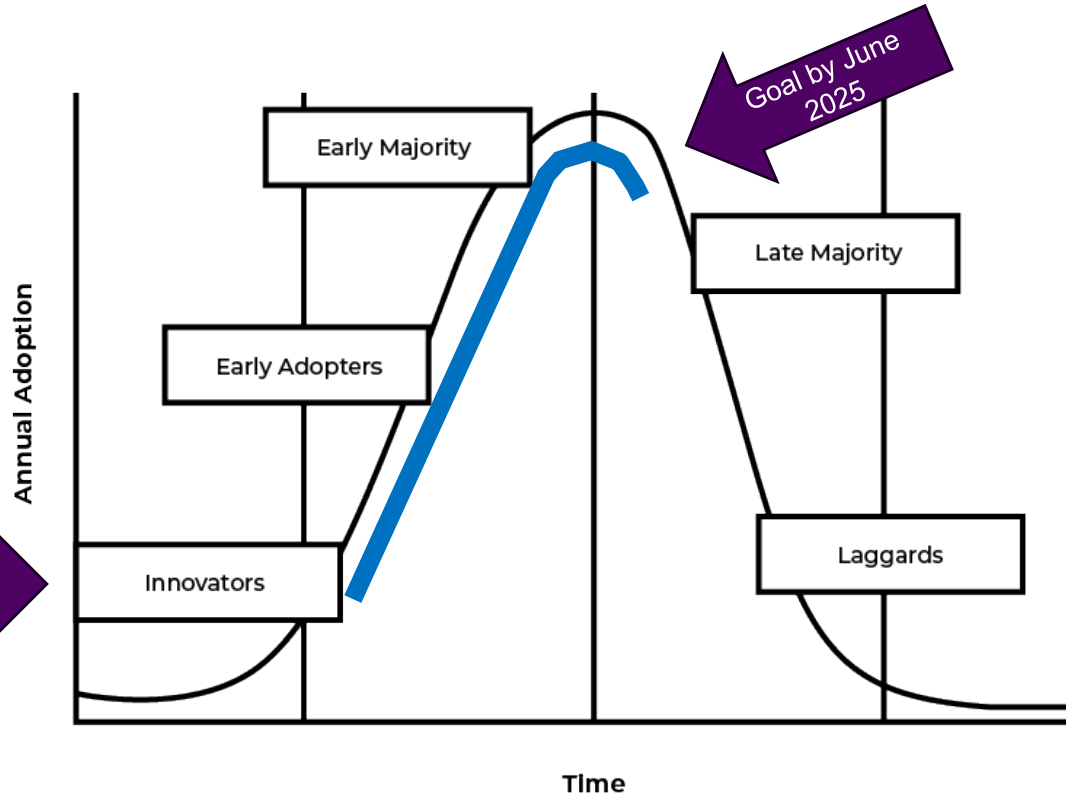
AI as a general-purpose technology (GPT)

Accelerating the Journey: Investigate => Experiment => Learn => Prototype => Deploy => Scale



The Model of Innovation Diffusion – An Everyone Thing

(ref. Everett et al., 1962)



Accelerating the Journey for Everyone at UCI

Scale
Deploy
Prototype
Learn
Experiment
Investigate

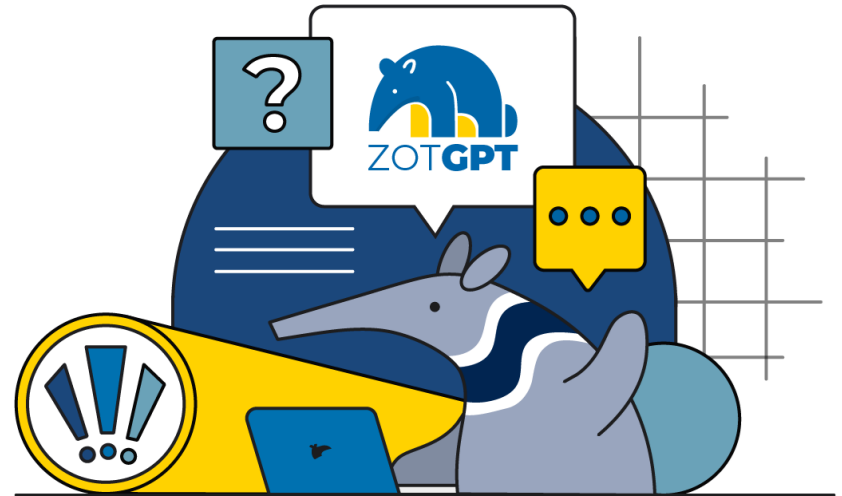
Final Thoughts

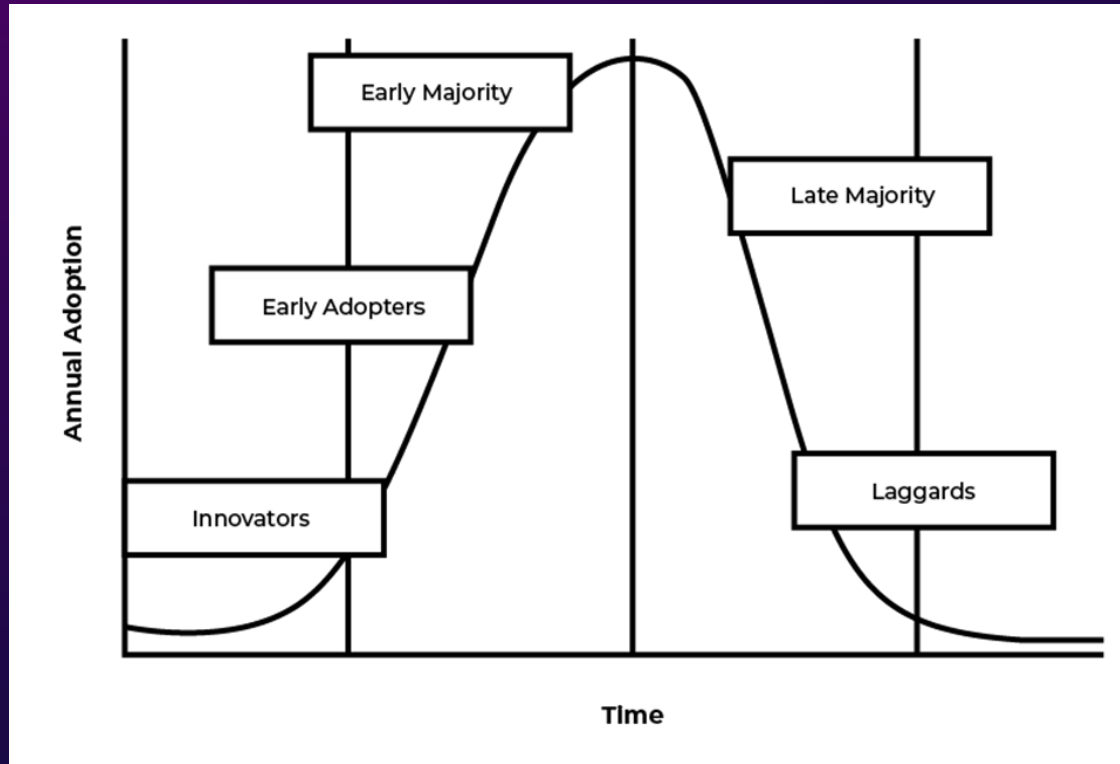


Fall Objectives

1. Establish light-hearted, fun, personable & professional tone around ZotGPT
2. Decrease student hesitancy regarding ZotGPT data collection
3. Persuade students to have ZotGPT as their first choice in AI chat assistance
4. Increase awareness and number of student users
5. Provide programming for AI literacy, incl “responsible, ethical & equitable use”

ZotGPT for Students



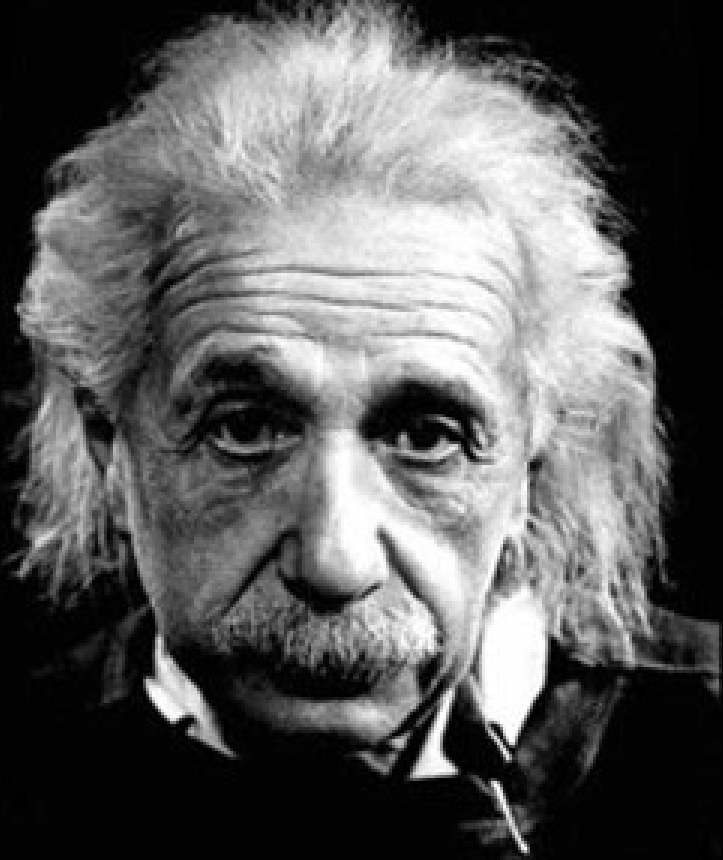


Source: Everett Rogers, "Diffusion of Innovations."

The future is already here.



It's just unevenly distributed



*Insanity Is Doing the Same
Thing Over & Over Again and
Expecting a Different Result*

- Albert Einstein

*IMAGINATION IS MORE IMPORTANT
THAN KNOWLEDGE*

Leaders make important decisions in their brains before those decisions ever come out of their mouths.

Our role as leaders is not to just develop strategies but to be able to successfully implement them



What's Your Approach?

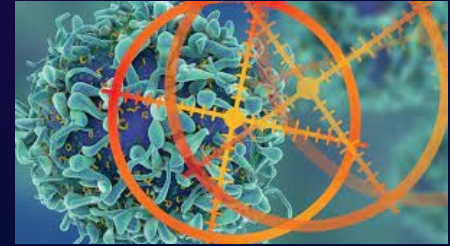
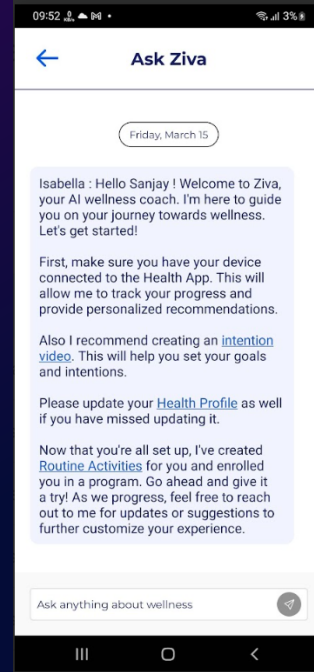
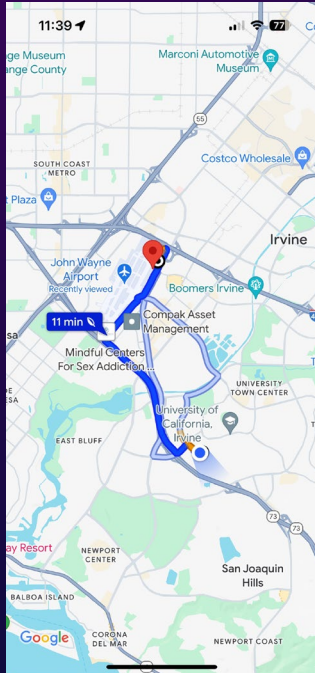
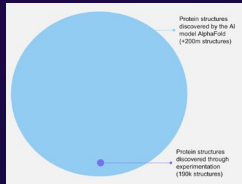
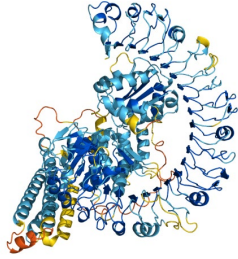
An increasingly
digital world

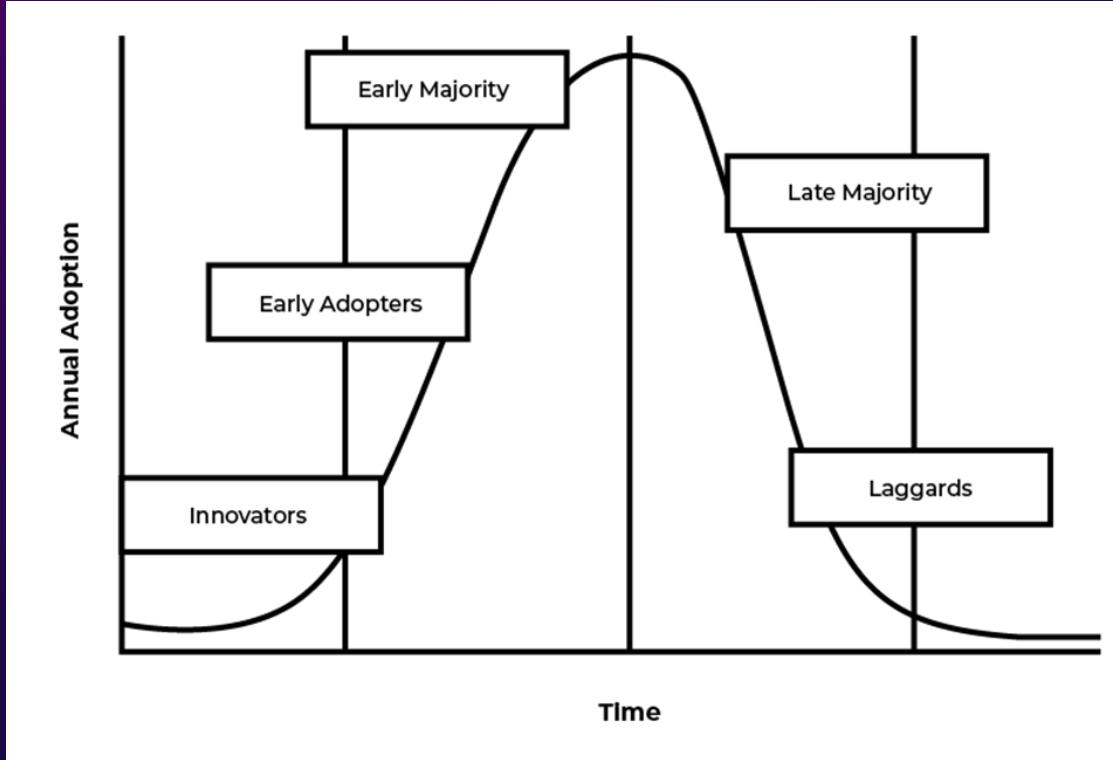


What Is

What Could Be

AlphaFold





Source: Everett Rogers, "Diffusion of Innovations."

"A deeply thoughtful, often funny, more often startling, and utterly compelling examination of American higher education in the twenty-first century."
—Tim O'Brien

**“WHATEVER IT IS,
I’M AGAINST IT”**

Resistance to Change
in Higher Education

BRIAN ROSENBERG



Resource Library

Welcome to the Work Reimagined 2.0 resource library, your hub for tools, templates, and more to help you navigate the landscape of work in our next era. As technology advances and reshapes our professional environments, this toolkit offers valuable insights and innovative perspectives to help you adapt, innovate, and succeed as we all reimagine work at UCI.

Campus Communications

- [Provost's Message – August 2023](#)
- [VC Andriola Introduces Work Reimagined 2.0](#)
- [VC Andriola Work Reimagined 2.0 Updates - Zotmail](#)

Professional Development & Trainings

- [Intro to Change Management Training - Part 1](#): learn about change management with this on-demand training
- [Intro to Change Management Training - part 2](#): learn about change management with this on-demand training
- [Udemy](#) - more than 5,500 free curated online training courses to support professional growth and development
- [Gartner](#) - free access to the authoritative Gartner research library through a streamlined UC Irvine portal

Templates

- **Structured methods for process improvement**
 - [Organizational Readiness Assessment](#) - a quick assessment to determine if the organization is ready to support an A3 process improvement
 - [Problem Solving A4 Template](#): a tool for individuals or teams to use to suggest solutions for simple problems
 - [Problem Solving A3 Template \(PPT\)](#): a method for solving complex problems for which you do not know the root causes (e.g., turnover is high)

