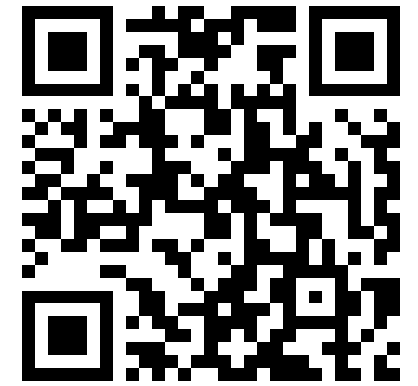




Tulane University Center for Community-Engaged Artificial Intelligence

<https://sse.tulane.edu/cs/ceai>



*scaling human-centered,
translational AI at Tulane*

Aron Culotta
Nicholas J. Altiero Professor
Computer Science
December 16, 2025



Aron Culotta

Computer Science



Nicholas Mattei



Andrea Boyles

Sociology



Patrick Button

Economics



Kristefer Stojanovski

Public health



Caryn Bell



Tulane University
Center for Community-Engaged
Artificial Intelligence

Affiliate Faculty



Saad Hassan
Assistant Professor of
Computer Science



Jordan Karubian
Professor of Ecology
and Evolutionary
Biology



Lizheng Shi
Neal A. and Mary
Vanselow Chair in
Health Management,
WSPH



Katherine Theall
Professor of Social,
Behavioral & Population
Sciences



Fallon Samuels Aidoo
Assistant Professor of
Real Estate and Historic
Preservation



Alessandra Bazzano
(Founding Co-Director)
Chair and Professor,
Dept. of Maternal and
Child Health, UNC



Ibrahim Demir
Michael A. Fitts
Presidential Chair in
Environmental
Informatics and
Artificial Intelligence



Vivian Fonseca, MD
Assistant Dean for
Clinical Research, Chief
of Endocrinology,
Professor School of
Medicine



Audrey Hang Hai
Assistant Professor of
Social Work



Douglas N. Harris
Professor of Economics

CEAI Timeline

- Jan 15th, 2022 CoE LOI Submitted
 - June 15th, 2022 CoE Proposal Submitted
 - September 15th, 2022 CoE Awarded
-
- November 28th, 2022
 - The Thirty-Sixth Annual Conference on Neural Information Processing Systems in New Orleans



CEAI Timeline

- Jan 15th, 2022: CoE
- June 15th, 2022: Su
- September 15th, 20



Sam Altman  
@sama

today we launched ChatGPT. try talking with it here:

chat.openai.com

- November 28th, 2022
 - The Thirty-Sixth A Information Proce
 - Rumors of a new v

1:38 PM · Nov 30, 2022

 1.3K

 9.8K

 36K

 10K

Generative AI



Generative A.I. Arrives in the Gene Editing World of CRISPR

Much as ChatGPT generates poetry, a new A.I. system devises blueprints for microscopic mechanisms that can edit your DNA.

Moonvalley is a groundbreaking new text-to-video generative AI model

Create breathtaking cinematic & animated



Be Smart!

Cut Your Study Time in Half, Ace Your Exams, Outshine Your Peers

Skip the multiple apps. Shepherd connects you with everything you need to learn better in one place.

Become a tutor

Get Started

Contract & Negotiation AI built for lawyers



AI_



Marketing revolutionized by AI

Jasper is an AI copilot for enterprise marketing teams who want better outcomes, not just faster outputs.

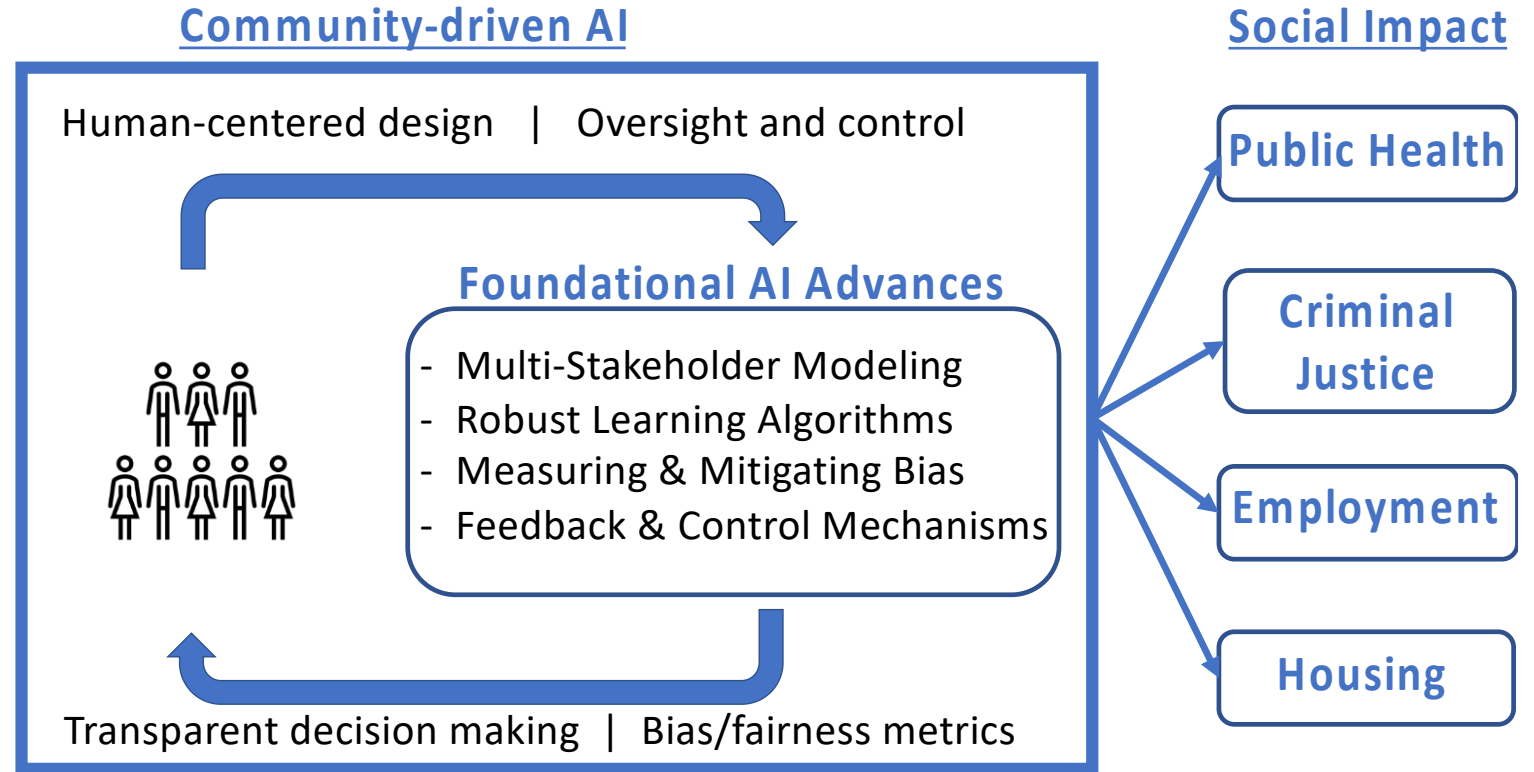


What is Tulane's "niche" in AI?

- As President Fitts [put it](#), Tulane's "*fluid academic structure, distinctive relational culture and outward-looking focus underlie our adaptability, strength and success. No other university in the country integrates these qualities better than Tulane.*"
- **Cross-disciplinary** nature and navigable size makes us uniquely positioned to build diverse teams for AI research.
- A focus on **translational** research that improves society builds upon Tulane's founding history of **place-based research** and investments in innovation, community service, and entrepreneurship.

CEAI Mission

To innovate *human-centered, community-engaged AI*, bringing together scientists, engineers, students, and community partners.



AI should not be siloed in one school

extramural funding with co-Is from 8 academic disciplines

computer science, medicine, public health, economics, sociology, political science, art, and law

CEAI Activities



Cross-disciplinary research teams

Extramural funding
Joint publications



Community Building

Seminars
Workshops
Partnerships



Expanding Tulane AI Capacity

Seed Grants
AI Innovation Fellow Program



Education and Student Mentoring

New degrees
Service Learning
Undergraduate Research

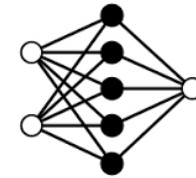
Community-led Research Project Pipeline

Community Workshops



- Brainstorming
- Relationship building with non-profits
- Learning from the community

Cross-Disciplinary Research



- Build faculty teams across departments
- Scope research projects with community partners
- Seed funds to initiate projects
- Seek joint funding opportunities



Service Learning Capstone Projects



- Year long undergraduate projects
- Data collection and refinement
- Build working prototypes/features with immediate impact



Community-led Research Project Pipeline

Comm

Understanding community perceptions of AI
"Artificial Intelligence: Risks and Benefits for Local Communities"

Friday April 28th, 2023

9:00am - 12:00pm

Tidewater Building - Diboll Gallery - Tulane University - 1440 Canal Street



Service
Capston



- Build working prototypes/features with immediate impact

ry Research

ld faculty teams across
departments

pe research projects with
community partners

d funds to initiate projects

k joint funding opportunities



AI Chatbot for City Council Meetings

What early signs indicated that there might be a future deficit in the city's budget?

Max number of references: 10 ▾

Start Date: 01/19/2024 📅 End Date: 10/29/2025 📅

Ask

Answer:

Early signs of a potential future deficit in projected deficit of \$70 million, concerns uncertainties regarding tax revenue change recession in 2024. Additionally, discussion lack of transparency in the city's financial challenges ahead.

Key Risks to 2024 General Fund Forecast

- Residential STR ruling issued on Feb. 28 has lessened -\$20m risk
 - Pending Zoning ordinances related to "Non-Commercial" Short-Term Rentals still present risk to General Fund forecast
- Fiscal Risks:
 - LA Senate Bill 302: Red Light/Speed Limit Enforcement Cameras = -\$15-20m from General Fund Revenue
 - Equivalent to one month of Sales Tax Revenue
 - Permitting Process issues remain unresolved and backlog continues
 - Restrains initial permitting operations and revenues and matriculates through process
- Potential Remains for Recession
 - Local Economy and General Fund Revenues still recovering from lockdown era
 - Potential for Financial and Commercial Crisis would directly impact NOLA real estate market, commercial activity/labor market, and visitor activity and revenues

▶ 9:25 / 1:04:36





External Funding

\$11.4M secured
through 9 awards



Collaborations

18 universities
8 industry/civic orgs



Publications

34 in leading venues



Dissemination

30+ presentations
8 workshops
10+ news articles



Supporting AI

\$70.5K seed funds
to 9 groups from 6 schools



Seminars

14 AI Lunch Seminars
7 Distinguished Lectures











AI Innovation Fellow Program

New shared unit
4 research projects



Education

2 new AI minors
20+ students
mentored

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In years 2-3:

- 9 new external awards
- \$11.4M (\$4.3 to Tulane)
- 10 additional proposals (\$43M) submitted, 5 pending



Sample projects



AI for Monitoring Criminal Court

NSF (Smart & Connected Communities): \$1.5M, 3 yrs

Culotta (PI), Boyles (SLA), Armstrong (Loyola)



ATOM: Adaptive Taxonomic Modeling of Variability in Judgment and Decision Making

ONR (MURI): \$7.5M (\$778 Tulane), 5 yrs

Mattei (PI), U of West Florida (prime), IHMC, Michigan Tech, University of Virginia



CHARMED: Conversational Health Agents for Risk & Metabolic Education

NIH (AIM-AHEAD): \$800K, 2 yrs

Culotta (PI), Fonseca (SOM), Shi (WSPH)

Tulane prime, with UL-Lafayette, DePaul subs

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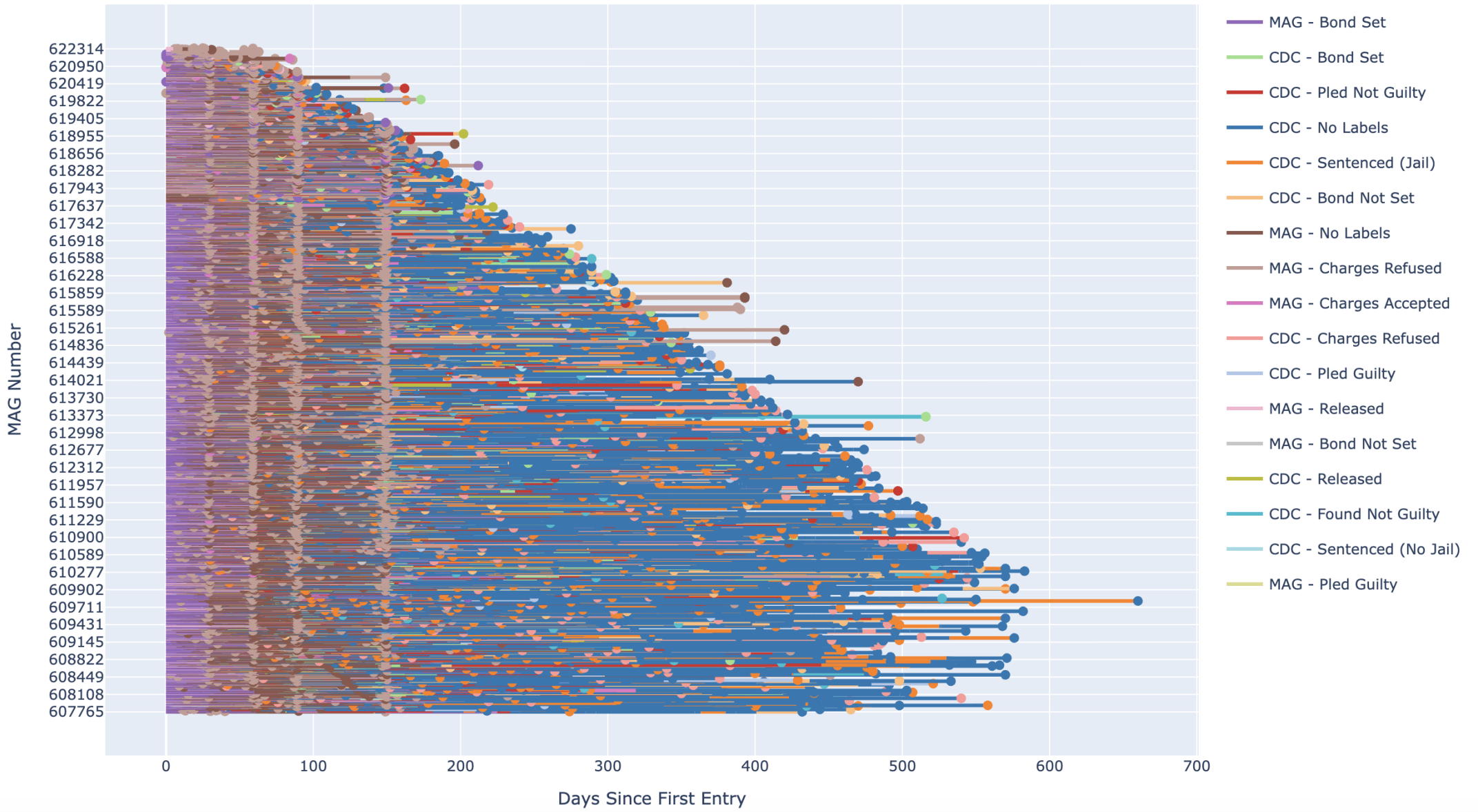


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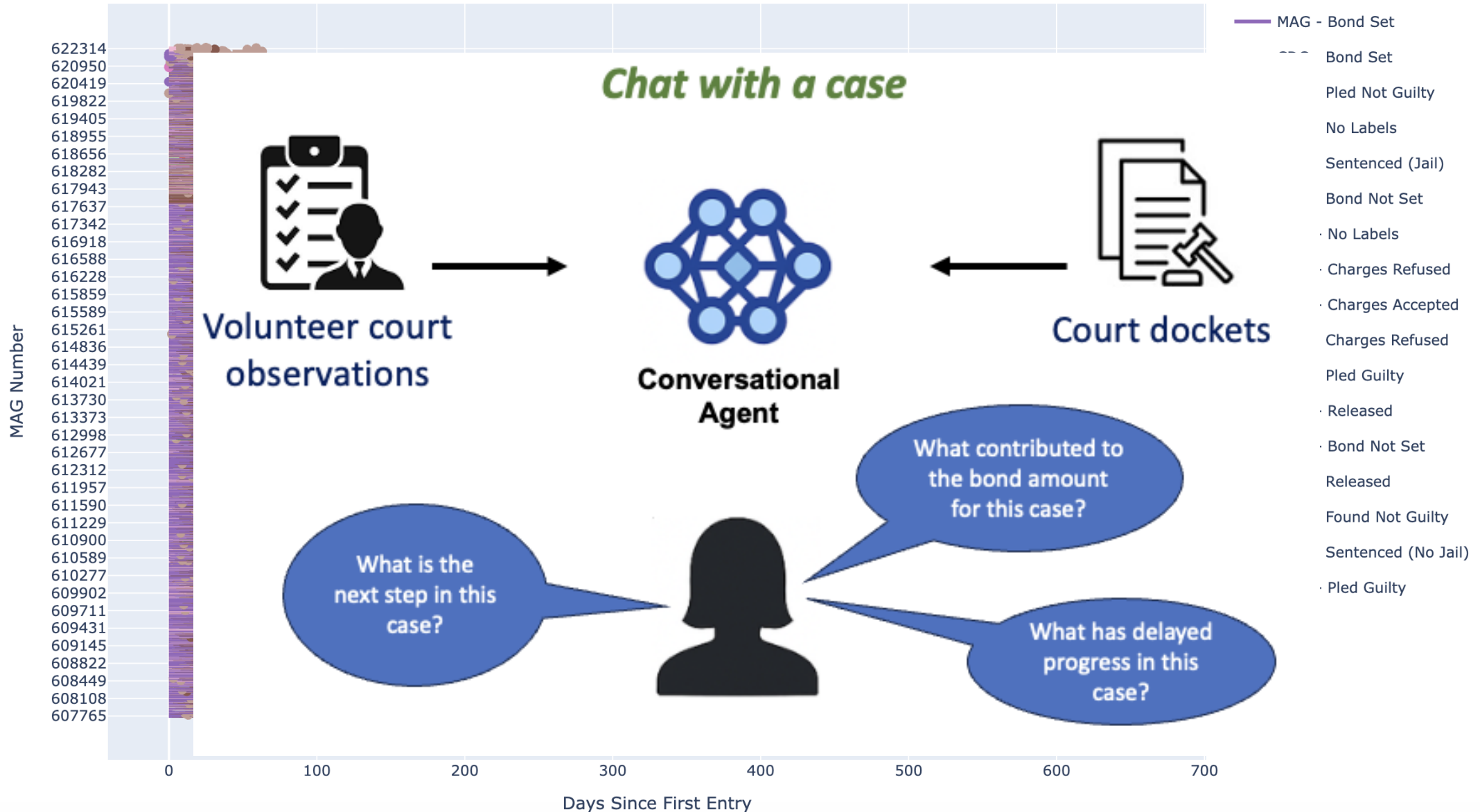
Tulane prime, with UL-Lafayette, DePaul subs



in



Tulane prime, with UL-Lafayette, DePaul subs



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tion

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Conversational Health Agents for Risk & Metabolic Education (CHARMED)



Aron Culotta



Lizheng Shi



Vivian Fonseca, MD



Kristen Thomas, MD



Raju Gottumukkala



Ravi Teja Bhupatiraju



Scott Sittig



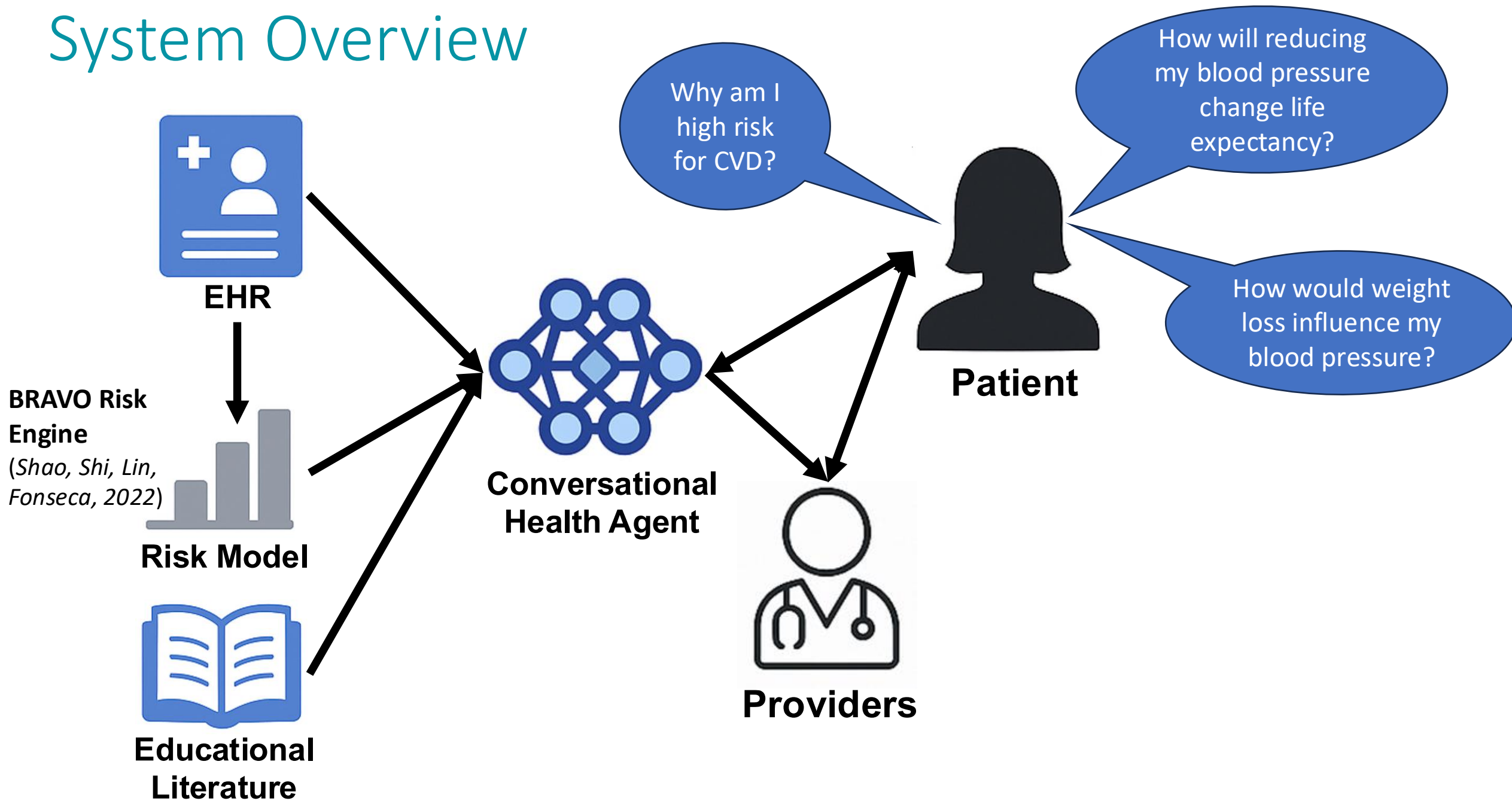
Kelly Meilleur-LeBeaud, NP

Conversational Health Agents for Risk & Metabolic Education (CHARMED)

Goal: To develop and pilot-test a **trustworthy, culturally adaptive** Conversational Health Agent (**CHA**) designed to deliver personalized education about diabetes-related risks to patients receiving care in Federally Qualified Health Centers and academic clinics.



System Overview

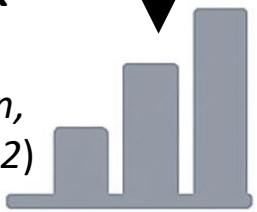


System Overview



EHR

BRAVO Risk Engine
(Shao, Shi, Lin, Fonseca, 2022)



Risk Model



Educational Literature

I was just diagnosed with diabetes. What should I know?



charmed-agent AI-generated content may be incorrect

I'm sorry you're going through this — that can feel overwhelming. Here's a clear, short summary of the most important things to know and do right now. What it means

- Find out your diabetes type (type 1, type 2, LADA) — this affects treatment.
- A1C is a blood test that shows average blood sugar over months. Ask what your A1C is and what target your clinician wants for you.

Immediate steps

- Make a follow-up appointment with your clinician. Ask for a

Type your message here...



How will reducing blood pressure change life expectancy?

How would weight loss influence my blood pressure?



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14 AI Lunch Seminars
7 Distinguished Lectures



AI Innovation Fellow Program

New shared unit
4 research projects



Education

2 new AI minors
20+ students
mentored

AHeAD

Accessible Healthcare Through
AI Augmented Decisions



NSF IUCRC



- Industry-Academic Research Center
- Planning Grant awarded 2025
- CS: Culotta, Hamm, Ding, Hassan, Zheng
- SOM: Fonseca, Crosslin
- WSPH: Shi, Ley

<https://nsfahead.org/>



U.S. Department of Veterans Affairs



ALLIANCE FOR ARTIFICIAL INTELLIGENCE IN HEALTHCARE



SUNVESTKA



INTERIA MANAGEMENT LLC











MediView



DOCSPACE



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The Illusion of Fairness: Auditing Fairness Interventions with Audit Studies

Disa Sariola, Patrick Button, Aron Culotta, Nicholas Mattei

Tulane University
New Orleans, LA, USA

dsariola@tulane.edu, pbutton@tulane.edu, aronwc@tulane.com, nsmattei@tulane.edu



▶ J Med Internet Res. 2025 Jan 22;27:e68198. doi: [10.2196/68198](https://doi.org/10.2196/68198) [↗](#)

AI Can Be a Powerful Social Innovation for Public Health if Community Engagement Is at the Core

[Alessandra N Bazzano](#)^{1,2,8}, [Andrea Mantsios](#)³, [Nicholas Mattei](#)^{2,4}, [Michael R Kosorok](#)^{5,6}, [Aron Culotta](#)^{2,4}

MAGAZINE WINTER 2024 ISSUE / FRONTIERS









Use Open Source for Safer Generative AI Experiments

Commercial AI services can put proprietary data at risk — but there are alternatives.



Publications

- We have continued to publish in high impact disciplinary venues focused on center topics. Highlights include:
- an article in [AAAI '26](#) investigating how to reduce AI bias using human audit studies from economics (a top global venue for AI; [A* CORE ranking](#); [232 h-index](#); acceptance rates typically <20%);
- an article in [NAACL'25](#) (a top natural language processing venue) developing causal inference methods for text analysis ([A CORE ranking](#); ; acceptance rates typically <25%; [126 h-index](#));
- an article in [Marketing Science](#) using language processing to understand how user reviews about neighborhood safety affect the short-term rental market ([FT50](#); [ABDC A*](#) ranking; 6.6 5-year impact factor)
- a [Brookings report](#) on how community engagement can enhance health resilience in New Orleans;
- an article in the [MIT Sloan Management Review](#) on how open-source technologies can be used to safely deploy modern large language models;
- an article in the [Journal of Medical Internet Research](#) on optimizing telehealth for diabetes management ([6.9 5-year impact factor](#); [172 h-index](#) - #1 in Medical Informatics);
- an article in the [American Journal of Health Economics](#) on discrimination in access to mental health care;
- an article in [RecSys'25](#) on improving the fairness of recommendation algorithms ([CORE A ranking](#))

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Participatory AI for Community Engagement (PACE 2024) Workshop

HCOMP 2024, October 16 - 19, Pittsburgh, Pennsylvania



Gulf Coast AI

A Social at NeurIPS 2023



EXPLORING THE FUTURE OF HEALTH EQUITY

A COLLABORATIVE DESIGN SPRINT BY NIEUXCO AND TULANE'S CEMCH, CEAI, AND VPI PROGRAMS EXPLORING HOW AI CAN STRENGTHEN OUR WORK WITHOUT COMPROMISING **WHAT MATTERS MOST**

December 5, 2025 | The Nieu, New Orleans

Powered by: NieuxEdge






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through 9 awards



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34 in leading venues



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4 research projects



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mentored

Seed funding: 9 projects - 6 schools - \$70.5K



LandmarkAI: Recognizing Real Estate Development Threats to Unregistered National Historic Landmarks +

ARCH: Aidoo



Chocó Forest Watch: Supporting Local Conservation in a Biodiversity Hotspot +

SSE: Karubian



Transforming a Traditional Evidence-Based Intervention: AI-Enhanced Support for Young Adults with Substance Use Disorders +

SSW: Hai



CrowdSimAI: An Open-Access Platform for Community-Driven Exploration and Analysis of AI “Crowd Wisdom” in Urban and Environmental Decision-Making +

SSE/Bywater: Demir



Predicting Indicative Signatures of Alzheimer’s Disease +

SOM: Nwadiugwu



Human Mobility in the Digital Age: Integrating Multimodal Large Language Models with Traditional Methods to Understand Migration in Online and Offline Communities +

SLA: Jiang



AURA (AI for Urban Resilience & Alerts): GulfGuard +

WSPH: Guest



Stakeholder-Centered Optimization of Predictive Epidemiology using Artificial Intelligence (SCOPE-AI) +

SOM/SSE: Hoerger



AIPTA: A Large Language Model for Evidence-Based Physical Therapy Support +

SSE: Rahman



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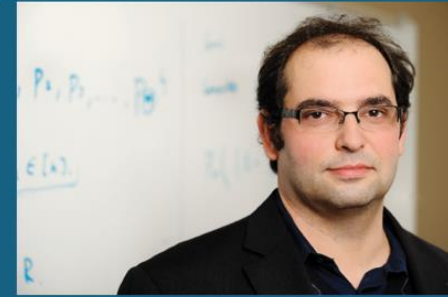
2 new AI minors
20+ students mentored



Deep Learning for 3D Scene Modeling & AI-Enhanced Healthcare

Andy Duan
Clemson University

Thursday, August 21st
12:30 pm
Stanley Thomas 316



Better and Less Expensive: Towards Trustworthy and Computationally Efficient AI for Health and Beyond

Vladimir Braverman
Johns Hopkins University

Thursday, October 30th
12:30 pm
Stibbs 203



Nitesh Chawla

Frank M. Freimann Professor of CSE
Notre Dame



Enhancing healthcare with AI-in-the-loop
Sriraam Natarajan

University of Texas at Dallas
November 7th 12:45p
Stanley Thomas 316

Pick, Click, Flick! Some Stories about Interaction Techniques



Brad Myers

Charles M. Geschke Director & Professor of Human Computer Interaction
Carnegie Mellon University

March 21st, 2025
11:30am – Boggs 600

It's Not (All) About You: Adventures in Multistakeholder Recommendation



Robin Burke

University of Colorado Boulder
December 9th 11:30am – Boggs 600



Peter Stone
UT-Austin
Dec 2nd

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AI Lunch & Learn Series

Fall 2025



Mon Sep 29
Saad Hassan
Assistant Professor,
Computer Science
Studying and Designing Human-AI Systems with and for People with Disabilities and Disability Communities



Mon Oct 20
Ibrahim Demir
Michael A. Fitts
Presidential Chair in Environmental Informatics and Artificial Intelligence
Reimagining Learning, Innovation and Engineering Practice in the Age of AI



Mon Oct 27
Emek Erdolu
Visiting Assistant Professor—Architecture and Computation Fellow
Computing for Sociotechnical Research in AI/Robotics



Mon Dec 1
Audrey Hang Hai
Assistant Professor,
School of Social Work

16 seminars Spring 24-Spring 26
Speakers from 7 schools

Spring 2025



Wed April 9
Patrick Button (with Chenxi Li)
Economics
Does Racial Concordance Reduce Discrimination in Access to Mental Health Care? Preliminary Evidence from an Audit Correspondence Field Experiment











Mon Feb 3
Nick Lacoste
PhD candidate,
Economics
Optimizing Policy Targeting with Machine Learning: Evidence from Pakistani Audits



Thurs January 30
Simone Skeen
PhD candidate, Social, Behavioral, and Population Sciences
Human-LLM synergies in qualitative inquiry: modeling subtly discriminatory clinical communications



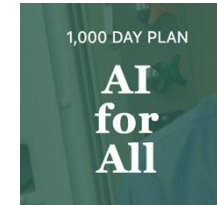
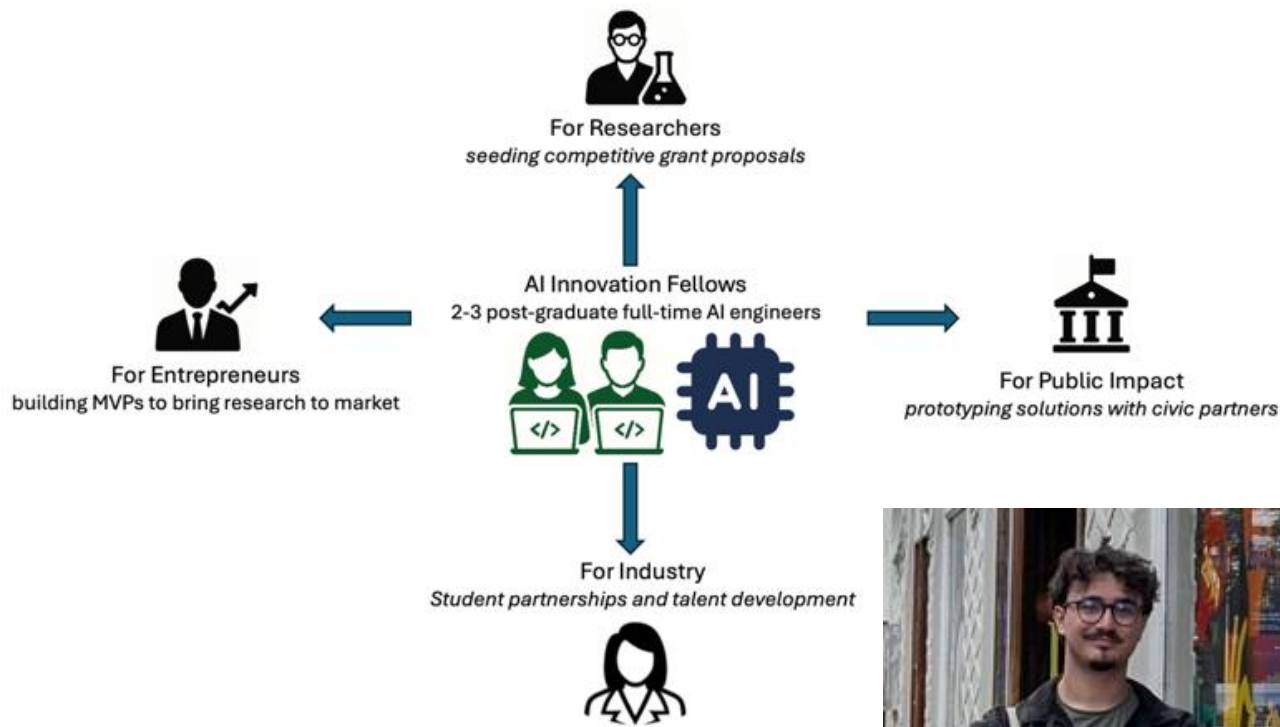
Thurs January 30
Mehrdad Baratian
PhD candidate,
Economics
The Economics of Scientific Disruption: Measuring the Impact of COVID-19 on Biomedical Research

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How can we scale AI research more efficiently across Tulane?

- We're seeing strong researcher interest, but the barriers to using AI remain high.
- PIs have plenty of data, but lack **AI engineering support**
- Great ideas, but no fast way to test and prove them.
- Leaving funding and other opportunities on the table.
- Seed funds for students help, but PIs lack qualified engineers
- PhD students must specialize, but diverse projects require **AI generalists**

Scaling Tulane AI with AI Innovation Fellows



Albert LePage Center
*for Entrepreneurship
& Innovation*

- **Full-time AI engineers (staff)** who rotate across groups to jumpstart early-stage projects.

- **Mentored** by Tulane AI faculty

- **Expertise** in machine learning, GenAI, software engineering

- Increase innovation across **research, entrepreneurship, education, and public impact** by building AI prototypes that demonstrate feasibility, spark cross-disciplinary collaboration, and generate new funding opportunities.

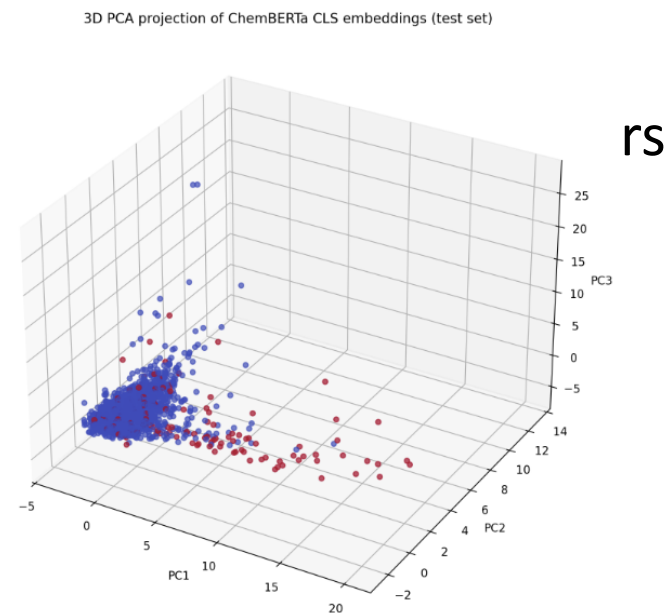


Leonardo Matone

Scaling Tulane AI with AI Innovation Fellows

The program launched four projects in Fall'25, beginning with a pilot focus on projects in SSE and TUII:

- **Daniel Strauss (CHEM)**: Developing deep learning models to predict properties of crystals formed from given molecules.
- **Carolyn Bayer (BME)**: Developing computer vision algorithm of preeclampsia from ultrasound images.
- **Brian Sidlauskas (EEBIO)**: Developing computer vision algorithm of physical characteristics from biological specimen image
- **Claiborne Christian (TUII)**: Developing a Gen AI tool to commercializable ideas from research proposals.



(b) 3D ChemBERTa PCA

Scaling Tulane AI with AI Innovation Fellows

The program launched four projects in Fall'25, beginning with a pilot focus on projects in SSE and TUII:

Abstract

IUCRC Planning Grant: Tulane University (Partner Site): Center for Accessible Healthcare through AI-Augmented Decisions (AHeAD)

#2515250 · 07/15/2025 · Tulane University

• PI: Aron Culotta aculotta@tulane.edu

The Industry-University Cooperative Research Center (IUCRC) for Accessible Healthcare through AI-Augmented Decisions (AHeAD) will develop trustworthy and usable AI technologies, so quality care is accessible by all populations. AHeAD is a multi-university research partnership between UL Lafayette (lead), Tulane, University of Florida and Georgia Tech. The center's research will create validated AI-enabled systems, quality assurance frameworks, and best practices that enable healthcare organizations to offer quality care for all, reducing healthcare gaps while saving costs. By training the next-generation AI workforce and releasing open-source AI models, the center will drive innovation, create new jobs, and grow the American economy. AHeAD's goal is to develop trustworthy AI technologies that improve healthcare access and outcomes for all populations. Research focuses on creating privacy-preserving,

Analysis Email Summary Re-run analysis x

Abstract Analysis: IUCRC Planning Grant: Tulane University (Partner Site): Center for Accessible Healthcare through AI-Augmented Decisions (AHeAD)

HIGH VALUE

Possible commercial opportunities

- Open-source AI models for healthcare
- AI-enabled systems for quality care
- Quality assurance frameworks and best practices for healthcare organizations
- Training the next-generation AI workforce

Intellectual property considerations

- AI/ML algorithms for healthcare
- Data science techniques for healthcare
- Systems engineering approaches for healthcare
- Health sciences research

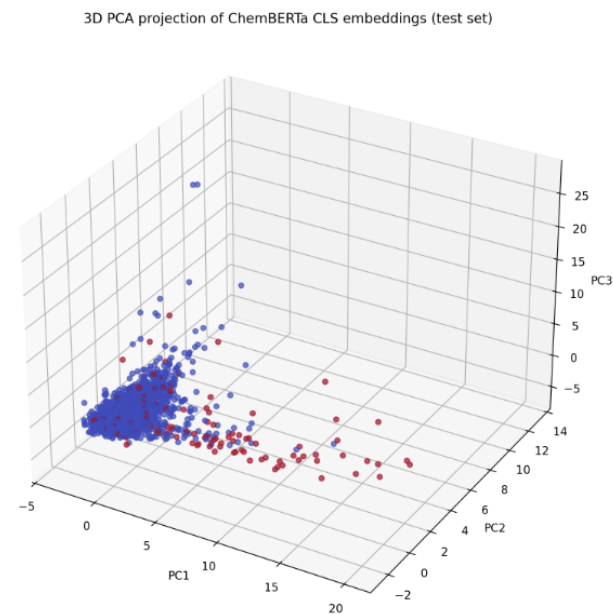
Draft outreach email

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image

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(b) 3D ChemBERTa PCA

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- CS AI Minor: launched F'25
- AI Literacy Minor (w/CAIDS): in progress
- Interdisciplinary courses (Mattei/Isaacson)
- AI Work Group for LA Board of Elementary Secondary Education
- Mentored and supported 20+ undergraduate and graduate students on center-affiliated research projects.
- Dozens of senior capstone / service learning projects with local partners



City of New Orleans



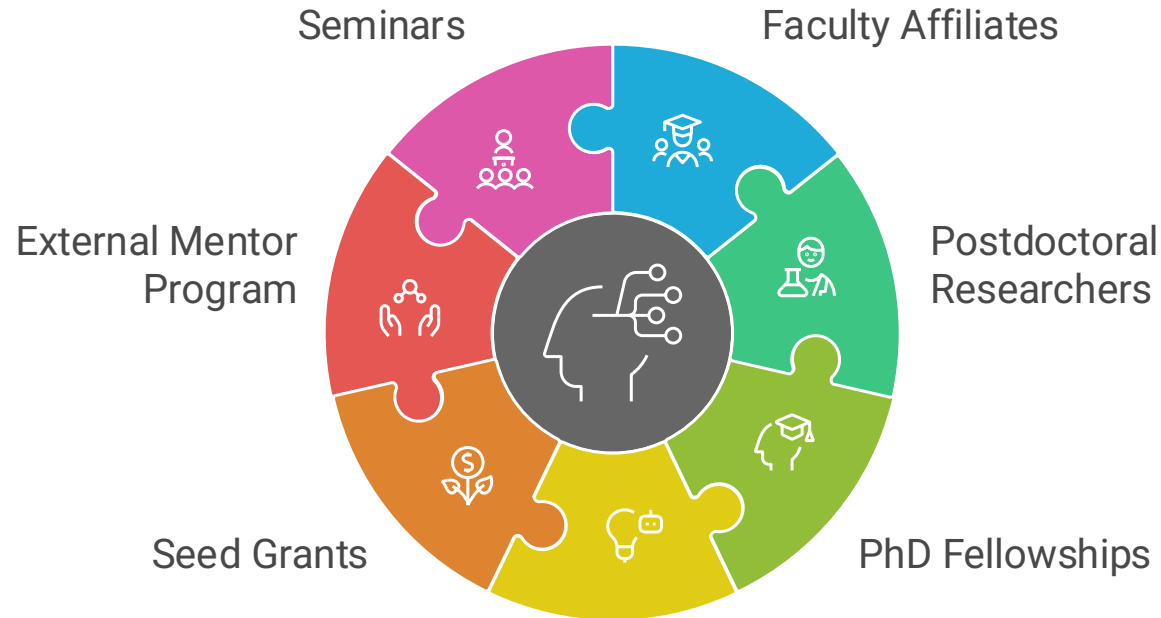
EYE ON SURVEILLANCE



entergy



Coordinating AI Across Campus



These investments position Tulane for larger federal center-level awards, accelerate clinical and community translation, and ensure we continue to lead on **cross-disciplinary, translational, human-centered AI**.