



THE R.I.S.E. AI CONFERENCE October 6-8, 2025

Event Program





ABOUT

THE CONFERENCE

On October 6-8, 2025, the Lucy Family Institute for Data & Society is delighted to host the inaugural RISE AI Conference at the University of Notre Dame. The RISE AI Conference provides a unique platform to share and discover how AI can address societal challenges while ensuring responsible, inclusive, safe and ethical advancements.

The world is in a transformative era, with AI revolutionizing industries, reshaping innovation, and unlocking opportunities once thought impossible. Its vast potential inspires optimism for a future where technology drives progress across industries, governments, NGOs, and society as a whole. However, with this promise comes significant responsibility. Concerns over bias, inequitable access, safety vulnerabilities, and ethical uncertainties highlight the urgent need for a guiding framework.

Join us as we explore AI's opportunities within education, workforce development, scientific discovery, healthcare, human-centered design, global governance, and more.



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EVENT WEBSITE



RESPONSIBLE

Stresses the importance of accountability, transparency, and a strong culture of responsibility in AI development and deployment to ensure alignment with societal values, clear understanding of decision-making, and ethical standards.

INCLUSIVE

Developing AI systems that are inclusive of all, including cultures and demographics, and SMEs that may not be represented in the AI development or deployment use cases. It is important to ensure a representation in development and use.

SAFE

Developing AI systems that are robust and reliable that is they work as intended, without producing harmful errors; are secure that is they offer protection from being hacked, manipulated or misused; and are aligned with human intentions.

ETHICAL

Extending beyond technical safety to address moral implications, emphasizing principles like Autonomy, Beneficence, and Justice, upholding human dignity and privacy, ensuring AI decisions are explainable and understandable, and prioritizing the common good.

CONFERENCE

TRACKS

The RISE AI Conference features several different research tracks with panels and breakout sessions that enable a deeper exploration of each AI research area.



AI FOR SAFETY AND SAFETY OF AI

Research that intersects AI system deployment and safety.



EDUCATION AND WORKFORCE OF THE FUTURE

RISE AI in transforming education and the 21st century workforce.



FOUNDATION MODELS: AI FOR SCIENCE ADVANCES

Accelerating scientific discovery with large-scale AI models.



HEALTH AI AND THE IMPACT ON RURAL HEALTHCARE

Health challenges of data acquisition and application to dispersed communities.



HUMAN-CENTERED RESPONSIBLE AI

Design, development, study, and evaluation of human-centered AI.



REIMAGINING GLOBAL GOVERNANCE AND POLICYMAKING

Exploring AI's influence in governance and policymaking.

CONFERENCE

AGENDA

MONDAY, OCTOBER 6

9:00AM Arrival & Check-In | McKenna 215/216 (Prefunction)

10:00AM

Impact of AI in Latin America | McKenna 215/216

Session I

Chair:

Karla Badillo-Urquiola, Clare Boothe Luce Assistant Professor of Computer Science and Engineering, University of Notre Dame

Presenters:

- Paula Aguirre Aparico, Vice President for Digital Intelligence, Pontificia Universidad Católica de Chile
- Rodrigo Carrasco, Data Science Director, Associate Professor, Institute of Mathematical Engineering and Computation, Industrial Systems Engineering Department, Pontificia Universidad Católica de Chile
- Carolina Melo Hurtado, Director of the Library, Associate Professor, Universidad de los Andes, Chile
- Lourdes Martínez Villaseñor, Research Professor, Universidad Panamericana

Session II

Chair:

Diego Gómez-Zar4, Assistant Professor, Computer Science and Engineering, University of Notre Dame

Presenters:

- Ang4lica Garc4a Mart4nez, Assistant Research Professor, Lucy Family Institute for Data & Society, University of Notre Dame
- Rodrigo Roa, Executive Director, Data Observatory
- Patricio Rojas, Director of Strategy, ESE Business School, Universidad de los Andes, Chile
- Anil Sadarangani, Director of Innovation, Universidad de los Andes, Chile

2:00PM

LLMs4All: Large Language Models for Research and Applications in Academic Disciplines

McKenna 215/216

Workshop Facilitators:

- Fanny Ye, Associate Director of Applied Analytics, Lucy Family Institute for Data & Society; Galassi Family Collegiate Professor in Computer Science and Engineering, University of Notre Dame
- Daniel Slate, Visiting Assistant Professor, University of Notre Dame



MONDAY, OCTOBER 6

3:00PM Breakout Sessions

OPTION ONE

AI- The Uncanny Glitch | McKenna 202

Speakers:

- Jon Satrom, Assistant Senior Instructional Professor and Associate Director, Program in Media Arts & Design, University of Chicago
- Michael Schreffler, Professor, Art History, Associate Dean for the Arts, College of Arts and Letters, University of Notre Dame
- Rebecca Struch, Managing Director, Arts Initiative, University of Notre Dame

OPTION TWO

From Students to AI Professionals- *Where are They Now?* | McKenna 215/216

Moderator:

Keith Feldman, Associate Professor, Learning Health Sciences, University of Michigan Medical School

Panelists:

- Everaldo Aguiar, Senior Engineering Manager, Applied AI, PagerDuty
- David Cieslak, Chief Data Scientist , Aanalytics
- Darcy Davis, Data Assets Director, Advocate Health
- Ryan Lichtenwalter, Director of Technology, FINRA
- Saurabh Nagrecha, Manager, Google
- Yijun Tian, AWS AI Lab
- Jian Xu, Quantitative Data Research Lead, Citadel LLC
- Yang Yang, Assistant Professor, IT, Analytics, and Operations, University of Notre Dame



MONDAY, OCTOBER 6

4:00PM RISE AI Opening Ceremony | McKenna 215/216

Nitesh Chawla

| Frank M. Freimann Professor of Computer Science and Engineering; Founding Director, Lucy Family Institute for Data & Society; Lucy Family Director for Data and AI Academic Strategy, University of Notre Dame

Tracy Graham

| Founder, Managing Principal, Graham Allen Partners; University of Notre Dame Board Trustee

Rev. John Jenkins, C.S.C.

| Professor of Philosophy; President Emeritus, University of Notre Dame

John McGreevy

| Charles and Jill Fischer Provost, University of Notre Dame

Marty Rodgers

| U.S. Lead, Health & Public Service Client Group, Accenture; University of Notre Dame Board Trustee

5:00PM *The Future of Healthcare: Integrating Human and Artificial Intelligence* Keynote McKenna 215/216

Robyn Kress

| President, Ascension Foundation

Stacy Garrett-Ray, MD

| Senior Vice President and Chief Community Impact Officer, Ascension

6:15PM Immersive ND Experience & Hors d'oeuvre Reception McKenna 205/206/207 & Prefunction



TUESDAY, OCTOBER 7

7:30AM Coffee & Check-In | McKenna 215/216 (Prefunction)

8:30AM *AI powered Enterprise Reinvention: Accelerating value with scaled AI responsibly*
Keynote McKenna 215/216

Arnab Chakraborty

Co-CEO Telstra-Accenture Data & AI Joint Venture
Chief Responsible AI Officer, Accenture

Dayle Stevens

Co-CEO Telstra-Accenture Data & AI Joint Venture
Executive for Data & AI, Telstra

9:40AM R.I.S.E. AI Panel Session | McKenna 215/216

AI & Sustainability

Moderator:

Ming Hu, Associate Professor, School of Architecture, College of Engineering;
Associate Dean for Research, Scholarship, and Creative Work, University of Notre Dame

Panelists:

- Wenman Liu, Research Fellow, FLARE Network
- Nabin Pradhan, Postdoctoral Research Fellow, School for Environment and Sustainability, University of Michigan

Health AI Opening Session | McKenna 205/206/207



Speakers:

- Michele Martin, Executive Director, Lucy Family Institute for Data & Society, University of Notre Dame
- Fang Liu, Notre Dame Collegiate Professor and Acting Chair, Applied Computational Mathematics and Statistics; Director, Health Data Exploration and Analytics Lab, Lucy Family Institute for Data & Society, University of Notre Dame



TUESDAY, OCTOBER 7

9:55AM **Health AI Keynote** *Present and Future of Health AI: Mitigating Dangers While Maximizing Benefits for All* | McKenna 205/206/207



Michael Pencina

| Professor of Biostatistics and Bioinformatics, Duke University School of Medicine

10:30AM **R.I.S.E. AI Panel Session** | McKenna 215/216

Careers in AI

Moderator:

Ahmed Abbasi, Joe and Jane Giovanini Professor of IT, Analytics, & Operations; Academic Director of the Ph.D. Program in Analytics, University of Notre Dame

Panelists:

- Christian Bird, Principal Researcher, Empirical Software Group, Microsoft Research
- Andy Warzon, Co-Founder & CTO, Trek10
- Heng Xu, Professor of IT, Analytics & Operations, University of Notre Dame

10:40AM **Health AI Roundtable Discussion:** *Emerging Applications of Data Science and Artificial Intelligence in Healthcare*



McKenna 205/206/207

11:30AM **Lunch** | Morris Inn Smith Ballroom

1:00PM **Keynote** *Shaping the Future of Voting with Technology Innovations* | McKenna 215/216

Juan Gilbert

| Andrew Banks Family Preeminence Endowed Professor, UF Distinguished Professor and Chair of the Computer & Information Science & Engineering Department, University of Florida



TUESDAY, OCTOBER 7

2:15PM Health AI Panel Session | McKenna 205/206/207



Every Person in Every Mile: Access to Data in Rural Communities

Moderator:

Fang Liu, Notre Dame Collegiate Professor and Acting Chair, Applied Computational Mathematics and Statistics; Director, Health Data Exploration and Analytics Lab, Lucy Family Institute for Data & Society, University of Notre Dame

Panelists:

- Jorge Leon, Senior Manager, Global Community Impact, Johnson & Johnson
- Lynne Nowak, Chief Data and Analytics Officer, Surescripts
- Cameal Wright, M.D. MBA, President, Indiana Market, CareSource

R.I.S.E. AI Breakout Sessions

OPTION ONE



Foundation Models; AI for Science Advances | McKenna B02

Workshop Facilitators:

- Meng Jiang, Director, Foundation Models and Applications Lab and Frank M. Freimann Collegiate Professor of Computer Science and Engineering, University of Notre Dame
- Xianliang Zhang, Director, Foundation Models and Applications Lab and Leonard C. Bettex Collegiate Professor of Computer Science, University of Notre Dame

OPTION TWO



Human-Centered Responsible AI | McKenna 215/216

Workshop Facilitators:

- Toby Jia-Jun Li, Director, Human-Centered Responsible AI Lab and Assistant Professor, Computer Science and Engineering, University of Notre Dame
- Diego Gómez-Zarà, Assistant Professor, Computer Science and Engineering, University of Notre Dame

OPTION THREE



Reimagining Global Governance & Policymaking | McKenna B01

Workshop Facilitators:

- Matthew Hauenstein, Assistant Research Professor, Lucy Family Institute for Data & Society, University of Notre Dame
- Valentina Kuskova, Professor of the Practice and Associate Director, Lucy Family Institute for Data & Society, University of Notre Dame
- Dmitry Zaytsev, Associate Professor of the Practice, Lucy Family Institute for Data & Society, University of Notre Dame

TUESDAY, OCTOBER 7

3:15PM Health AI: Overview of Innovathon & Breakout Sessions

McKenna 205/206/207

McKenna 201, 202, 204



Workshop Facilitators:

- Mamta Elias, Venture Build Director, Alloy Partners
- Shannon Huneke, Managing Director, S.P.H. Consulting, LLC
- Mike Joslin, Director, 1842 Studio & Fund, Alloy Partners
- Michael Wicks, Build Manager, 1842 Studio, Alloy Partners

5:00PM *Where are We in the Journey to A Knowledgeable Assistant?*

Keynote McKenna 215/216

Xin "Luna" Dong

| ACM Fellow / IEEE Fellow; Chief Scientist at Meta Wearables AI

6:15PM Poster Session 1 & Hors d'oeuvre Reception

Morris Inn Smith Ballroom Prefunction & Private Dining Rooms



WEDNESDAY, OCTOBER 8

7:30AM Coffee & Check-In | McKenna 215/216 (Prefunction)

8:30AM Fireside Chat | McKenna 215/216

Keynote

Moderator:

Frank M. Freimann Professor of Computer Science and Engineering; Founding Director, Lucy Family Institute for Data & Society; Lucy Family Director for Data and AI Academic Strategy, University of Notre Dame

Father Paolo Benanti

| Third Order Regular Franciscan; Associate Professor of Ethics of AI, LUISS University

Aarti Singh

| Professor, Machine Learning Department, Carnegie Mellon University;
| Director, NSF AI Institute for Societal Decision Making



WEDNESDAY, OCTOBER 8

9:40AM R.I.S.E. AI Panel Session | McKenna 215/216

AI and Ethics at Notre Dame - Leading from the Front

Moderator:

Michele Martin, Executive Director, Lucy Family Institute for Data & Society, University of Notre Dame

Panelists:

- Nicholas Berente, James H. Sweeny III and Alicia Sweeny Collegiate Professor of IT, Analytics, and Operations; Senior Associate Dean for Academic Programs, IT, Analytics, and Operations, University of Notre Dame
- Yong Suk Lee, Associate Professor of Technology, Economy and Global Affairs, University of Notre Dame
- Suzanne Shanahan, Leo and Arlene Hawk Executive Director, Institute for Social Concerns; Professor, Sociology, University of Notre Dame
- Tom Stapleford, Associate Professor, Program of Liberal Studies; Concurrent Associate Professor, Department of History; Faculty, Program in History & Philosophy of Science, University of Notre Dame

9:40AM **Health AI Keynote** *Rural Health and Artificial Intelligence: Bridging Gaps, Empowering Communities* McKenna 205/206/207



Ketan Paranjape

Senior Vice President, Chief Operating Officer, Optum

10:30AM R.I.S.E. AI Panel Session | McKenna 215/216

AI for Nonprofits & Governments

Moderator:

Matthew Sisk, Director, Civic-Geospatial Analysis and Learning Lab, Associate Professor of the Practice, Lucy Family Institute for Data & Society, University of Notre Dame

Panelists:

- Jake Franklin, Psychiatry Medicine Physician, Oaklawn Psychiatric Center
- Bill Purcell, President/CEO, Crossroads United Way of Elkhart
- Denise Linn Riedl, Chief Innovation Officer, City of South Bend

WEDNESDAY, OCTOBER 8

10:30AM Health AI Panel Session | McKenna 205/206/207



Healing in Community: Addressing Loneliness & Mental Health for Sustainable Social Resilience

Moderator:

Shannon Huneke, Managing Director, S.P.H. Consulting, LLC

Panelists:

- Bukata Hayes, Vice President, Chief Community Health Officer, Blue Cross Blue Shield Minnesota
- Emily Ho, Assistant Professor, Medical Social Sciences, Northwestern University
- Shelley Kendrick, President & CEO, Ecumen
- Erwin Tan, Director, Thought Leadership, AARP

11:30AM Lunch | Morris Inn Smith Ballroom

1:00PM **Keynote** *Generative Computing: A principled approach for building robust secure and efficient GenAI applications* McKenna 215/216

Sriram Raghavan

| Vice President, IBM Research for AI

2:15PM R.I.S.E. AI Breakout Sessions

OPTION ONE



AI for Safety & Safety of AI | McKenna B02

Workshop Facilitators:

- Adam Czajka, Director, AI Trust and Reliability Lab and Associate Professor, Computer Science and Engineering, University of Notre Dame
- Rick Johnson, Associate Professor of the Practice & Managing Director, Applied Analytics and Emerging Technology Lab, Lucy Family Institute for Data & Society, University of Notre Dame

OPTION TWO



Education & Workforce of the Future | McKenna B01

Workshop Facilitators:

- Sugana Chawla, Associate Professor of the Practice, Data Science Education Program Director, Lucy Family Institute for Data & Society, University of Notre Dame
- Cheng Liu, Assistant Research Professor, Psychology, University of Notre Dame

WEDNESDAY, OCTOBER 8

OPTION THREE

Zero to Strategy; How to Create an AI-Enabled Company | McKenna 215/216

Moderator:

Peter VanOverbeke, Global Account Leader, Accenture

Panelists:

- David Cieslak, Chief Data Scientist, Aunalytics
- John Hearty, Director of AI Governance, MasterCard
- Jacob McLein, Vice President, Enterprise Information Security, Southwire
- Uyi Stewart, Vice President, Inclusive Innovation & Analytics, Mastercard

2:15PM

Health AI Panel Session | McKenna 205/206/207



Health AI in Action: Innovation In AI with the Mayo Clinic

Speakers:

- Emily Godsey, Administrator: Innovation & Digital Transformation, Mayo Clinic
- Scott Helgeson, Doctor of Medicine, Assistant Professor, Mayo Clinic

3:30PM

**Health AI
Keynote**

Artificial Intelligence Meets the Healing Arts: Reimagining 21st Century Healthcare

McKenna 205/206/207



Michelle Hermiston

Dean of the College of Health Sciences, VinUniversity

5:00PM

Poster Session 2 | Morris Inn Smith Ballroom & Private Dining Rooms



6:15PM

Closing Awards & Dinner | Morris Inn Smith Ballroom

Nitesh Chawla

Frank M. Freimann Professor of Computer Science and Engineering; Founding Director, Lucy Family Institute for Data & Society; Lucy Family Director for Data and AI Academic Strategy, University of Notre Dame

Rev. Nathan D. Wills, C.S.C.

Associate Professor of the Practice, Institute for Educational Initiatives; Priest-in-Residence in Keough Hall; Football Chaplain, University of Notre Dame

The University of Notre Dame Glee Club

KEYNOTE

SPEAKERS

FATHER PAOLO BENANTI

Third Order Regular Franciscan; Associate Professor of Ethics of AI, LUISS University



Roman, born in 1973, Paolo Benanti is a Third Order Regular Franciscan – TOR – and works on ethics, bioethics and ethics of technologies. In particular, his studies focus on the management of innovation: the Internet and the impact of the Digital Age, biotechnology for human improvement and biosafety, neuroscience and neurotechnology.

Benanti is an associate professor of the Ethics of AI at LUISS University. He was part of the Artificial Intelligence Task Force to assist the Agency for Digital Italy. He is a member of the Pontifical Academy for Life with a particular mandate for the world of artificial intelligence.

ARNAB CHAKRABORTY

Co-CEO Telstra-Accenture Data & AI Joint Venture; Chief Responsible AI Officer, Accenture



Arnab Chakraborty oversees strategy, market-leading capabilities, client engagements and technology ecosystem relationships and research partnerships related to responsible AI. Recently, Chakraborty took on the role to lead the Telstra-Accenture Joint Venture on Data & AI and is the Co-CEO of the Joint Venture.

Arnab is a regular contributor to important conversations on AI regulation, including speaking to the U.S. Senate AI Insight Forum to address the impact and implications of AI on the workforce. He also led discussions on responsible AI at the World Economic Forum.

XIN "LUNA" DONG

ACM Fellow / IEEE Fellow; Chief Scientist at Meta Wearables AI



Xin Luna Dong leads machine learning efforts in building an intelligent personal assistant for wearable devices.

Before that, she spent more than a decade building knowledge graphs, including the Amazon Product Graph and the Google Knowledge Graph. She has co-authored books, "Machine Knowledge: Creation and Curation of Comprehensive Knowledge Bases," and "Big Data Integration." She was named an ACM Fellow and an IEEE Fellow for "significant contributions to knowledge graph construction and data integration," awarded the VLDB Women in Database Research Award and VLDB Early Career Research Contribution Award.



STACY GARRETT-RAY, M.D.

Senior Vice President, Chief Community Impact Officer, Ascension



Stacy Garrett-Ray, M.D. M.P.H., M.B.A. is Senior Vice President and Chief Community Impact Officer for Ascension nationally. In this role, Dr. Garrett-Ray leads strategies and initiatives to collaboratively address community needs, healthcare access, quality and experiences in addition to convening partnerships to invest in innovative program development to advance health equity and create positive multigenerational impact.

A board-certified family physician, Dr. Garrett-Ray previously served as Vice President/ Medical Director of the University of Maryland Medical System's Population Health Services Organization and President of their clinically integrated network.

JUAN GILBERT

Andrew Banks Family Preeminence Endowed Professor, University of Florida



Juan E. Gilbert is the Andrew Banks Family Preeminence Endowed Professor, UF Distinguished Professor and Chair of the Computer & Information Science & Engineering Department at the University of Florida where he leads the Computing for Social Good Lab. He is a Fellow of the Association of Computing Machinery (ACM), a Fellow of the American Academy of Arts and Sciences, a Fellow of the IEEE, a Fellow of the American Association of the Advancement of Science (AAAS), and a Fellow of the National Academy of Inventors.

Gilbert was named a laureate of the National Medal of Technology and Innovation by President Joe Biden. President Biden also appointed him to the National Science Board in 2024.

MICHELLE HERMISTON

Dean of the College of Health Sciences, VinUniversity



Michelle Hermiston is the Dean of the College of Health Sciences at VinUniversity in Hanoi, Vietnam where she is tasked with building infrastructure for cutting edge health research and leading development and implementation of innovative health sciences education.

Currently, in addition to her role as Dean, she serves as the Senior Advisor for Education for SIOF North America and Senior Advisor to the HDCC GCP.



ROBYN KRESS

President, Ascension Foundation



Robyn Kress joined Ascension in 2021 to establish the Ascension Foundation, bringing more than 20 years experience in fundraising, donor relationships and insight related to equity and inclusion.

A nationally sought after philanthropy expert, Robyn led marketing and event agencies, advising and supporting executive leaders and fundraising teams at elite organizations including Harvard Business School, Duke University, the Smithsonian Institution, and Children’s Hospital Los Angeles to inspire high level giving for \$1 billion+ fundraising campaigns.

KETAN PARANJAPE

Senior Vice President, Chief Operating Officer, Optum



Paranjape is the Senior Vice President and Chief Operating Officer of Enterprise Imaging at Optum, bringing 25 years of experience in developing and commercializing digital solutions across diverse industries.

Prior to that he was the Vice President of Commercial Business Operations, Business Intelligence and Analytics at Roche and was the VP of Roche Information Solutions business focused on harnessing the power of data, diagnostics, and other critical information to support better clinical decisions. He is currently on the roster of experts on Digital Health at the World Health Organization.

MICHAEL PENCINA

Professor of Biostatistics and Bioinformatics, Duke University School of Medicine



Michael J. Pencina is Duke Health’s chief data scientist and serves as vice dean for data science, director of Duke AI Health, and professor of biostatistics and bioinformatics at the Duke University School of Medicine. His work bridges the fields of data science, health care, and AI, and contributes to Duke’s national leadership in responsible health AI.

Pencina is a globally recognized expert in evaluating AI algorithms. His work guides best practices for clinical decision support tools and informs guideline groups. He collaborates regularly with academic, industry, and government stakeholders.



SRIRAM RAGHAVAN

Vice President, IBM Research for AI



Sriram Raghavan leads a worldwide team of researchers who are advancing the field of AI and accelerating its applications to the digital transformation of enterprises. Raghavan is responsible for establishing and executing a wide-ranging research agenda that spans foundational and applied AI. He also has overall responsibility for the R&D portfolio and transfer of technology from IBM Research to IBM's \$25B+ software business.

Prior to his current role, he was the Director of the IBM Research Lab in India and the CTO for IBM in India/South Asia.

AARTI SINGH

Professor, Carnegie Mellon University, Director, NSF AI Institute for Societal Decision Making



Aarti Singh is a Professor in the Machine Learning Department at Carnegie Mellon University and Director of the NSF AI Institute for Societal Decision Making. Her research lies at the intersection of machine learning, statistics and signal processing, and focuses on designing principled interactive algorithms for learning and decision making with application to scientific and societal domains.

Her work is recognized by an NSF Career Award, a United States Air Force Young Investigator Award, A. Nico Habermann Faculty Chair Award, Harold A. Peterson Best Dissertation Award, and multiple paper awards.

DAYLE STEVENS

Co-CEO Telstra-Accenture Data & AI Joint Venture; Executive Director of Data and AI, Telstra



Dayle Stevens is the Executive Director of Data and AI at Telstra. Recently, Stevens took on the role to lead the Telstra-Accenture Joint Venture on Data & AI as the Co-CEO of the Joint Venture.

Stevens has previously been the Chief Data Officer at AGL Energy, Divisional CIO and other roles at National Australia Bank, and as an IT consultant with PWC working all over the world helping businesses transform through the adoption of new technologies. She is also the Chief Ambassador for the Telstra Foundation, an Ambassador for Robogals and for Girl Geek Academy.



KEYNOTE

ABSTRACTS

THE FUTURE OF HEALTHCARE: INTEGRATING HUMAN AND ARTIFICIAL INTELLIGENCE

Robyn Kress, President, Ascension Foundation

Stacy Garrett-Ray, M.D., Senior Vice President, Chief Community Impact Officer, Ascension

To solve healthcare's critical challenges, the future depends on a powerful partnership between humans and AI. Artificial intelligence has the potential to enhance precision and efficiency, freeing clinicians to focus on the indispensable human elements of empathy and complex care. At Ascension, we're working to harness the transformative power of AI to enhance the work of physicians and nurses today and prepare the healthcare workforce of tomorrow, in a collaboration that promises a more precise, effective, and compassionate healthcare system for all.

AI POWERED ENTERPRISE REINVENTION: ACCELERATING VALUE WITH SCALED AI RESPONSIBLY

Arnab Chakraborty, President, Co-CEO Telstra-Accenture Data & AI Joint Venture; Chief Responsible AI Officer, Accenture

Dayle Stevens, Co-CEO Telstra-Accenture Data & AI Joint Venture; Executive Director of Data and AI, Telstra

AI revolution is one of the most transformative forces in human history, with >\$10T in economic value can be unlocked within 15 years. AI Reinvention is now a top priority at the board level and organizations like Telstra and Accenture are coming together to enable the bold move to create AI first enterprise across Telstra. In this keynote, the Co-CEOs of Telstra Data and AI JV will unpack the key pillars of Total Enterprise Reinvention that is powered by modernizing and scaling Data and AI powered solutions with responsible AI guard rails, enabling trust and adoption while activating significant enterprise value.

The keynote will bring to life the approach, real life AI solutions and outcomes achieved. The leaders will also highlight the key challenges and learnings from their bold and ambitious journey that can be translated across multiple industries.



THE PRESENT AND FUTURE OF HEALTH AI: MITIGATING DANGERS WHILE MAXIMIZING BENEFITS FOR ALL

Michael Pencina, Professor, Biostatistics & Bioinformatics, Duke University School of Medicine

Artificial Intelligence had the potential to transform life as we know and is taking many fields by storm. Its consequences, both opportunities and risks, might be most pronounced in human health. On the one hand, AI algorithms can aid detection of new cures and therapies, diagnose and predict future disease much faster than current practice and bring healthcare to parts of the country and world that suffer from the lack of access. On the other hand, if not deployed responsibly, with strict adherence to the highest ethical standards, AI can de-humanize or trans-humanize health and medicine and put most vulnerable members of society at further risk and disadvantage.

In this presentation we explore grounding principles that can guide responsible development and implementation of AI in health. Starting with the assumption that AI needs to serve the human person, we argue for intentional governance grounded in quality, safety and transparency while at the same time promoting continued progress and innovation. We present emerging positive examples of responsible AI governance and point to future directions and areas of focus.

SHAPING THE FUTURE OF VOTING WITH TECHNOLOGY INNOVATIONS

Juan Gilbert, Andrew Banks Family Preeminence Endowed Professor, University of Florida

As AI and technology become more pervasive in our society, what is the future of technology in voting? Will we ever be able to vote online, if not why? What about the long lines for voting, can technology eliminate them? Voter ID has been an issue, can technology and AI help? In this talk, Dr. Gilbert will take a look at innovations from the lab and scientific findings of voting technologies to address these questions and many more.

WHERE ARE WE IN THE JOURNEY TO A KNOWLEDGEABLE ASSISTANT?

Luna Dong, Chief Scientist, Meta Wearables AI

For decades, multiple communities (Database, Information Retrieval, Natural Language Processing, Data Mining, AI) have pursued the mission of providing the right information at the right time. Efforts span web search, data integration, knowledge graphs, question answering. Recent advancements in Large Language Models (LLMs) have demonstrated remarkable capabilities in comprehending and generating human language, revolutionizing techniques in every front. However, their inherent limitations such as factual inaccuracies and hallucinations make LLMs less suitable for creating knowledgeable and trustworthy assistants.



RURAL HEALTH AND ARTIFICIAL INTELLIGENCE: BRIDGING GAPS, EMPOWERING COMMUNITIES

Ketan Paranjape, Senior Vice President, Chief Operating Officer, Optum

Artificial intelligence (AI) is emerging as a transformative force in rural health, offering innovative solutions to longstanding challenges of access, efficiency, and the quality of care. In regions where healthcare resources are scarce and populations are aging, AI-powered tools have begun to close the gap between rural residents and essential services. Notably, AI-driven telehealth platforms now enable virtual consultations and continuous monitoring for older adults, mitigating the effects of geographic isolation. Furthermore, AI chatbots and digital companions are providing real-time support, combating loneliness, and facilitating mental health interventions tailored to individuals' needs. For example, machine learning algorithms can proactively identify at-risk seniors, alert community care teams, and suggest personalized engagement activities, ensuring timely intervention before issues escalate. Community-based AI solutions also foster peer support networks and guide older adults toward accessible social opportunities. Through these advances, AI not only elevates the standard of rural healthcare but strengthens the social fabric, empowering older individuals to remain active, connected, and resilient in their communities. This keynote will explore the promise and pathways for harnessing AI in rural health, highlighting practical applications and the profound potential to enhance well-being among older rural populations.

GENERATIVE COMPUTING: A PRINCIPLED APPROACH FOR BUILDING ROBUST SECURE AND EFFICIENT GEN-AI APPLICATIONS

Sriram Raghavan, Vice President, IBM Research for AI

The emergence of increasingly powerful and capable large language models has led to a rapid evolution in the scale and sophistication of AI-powered applications. Over the last 12 months, we have seen generative AI apps evolve rapidly from simple chatbots and Q&A systems to more sophisticated assistants, agents, and even multi-agent systems. For a single end-user query, many of these applications utilize multiple iterative LLM calls, often to multiple models, interspersed with business logic and control flow. Yet, the programming paradigm for interacting with LLMs has largely remained rudimentary and based on highly brittle and laborious prompt engineering. This has resulted in systems built using massive hand crafted prompts that are highly error-prone, hard to maintain, insecure, and inefficient to execute.

In this session, we will introduce and describe a new generative computing paradigm that establishes a robust and well-defined programming model and software infrastructure for building LLM applications. Using real examples from enterprise use cases, we will show how generative computing enables a systematic approach to building AI agents, promoting better maintainability, security, efficiency (through LLM-software co-design), and quality (through the use of inference scaling techniques). We will also describe how we are enabling generative computing through a new programming library on top of IBM's Granite models.



ARTIFICIAL INTELLIGENCE MEETS THE HEALING ARTS: REIMAGINING 21ST CENTURY HEALTHCARE

Michelle Hermiston, Dean of the College of Health Sciences, VinUniversity

Artificial intelligence (AI) is revolutionizing healthcare for both health care providers and patients. For healthcare providers, AI is enhancing diagnostics, streamlining operations, and enabling personalized medicine. Its potential spans medical imaging, drug discovery, surgical robotics, virtual health assistants, and remote patient monitoring. AI is also empowering patients by providing personalized, plain-language health information and decision support, enabling more informed choices about treatment options. It facilitates proactive health management through continuous monitoring via wearables, personalized medication reminders, and symptom tracking. AI-driven tools can also improve health literacy with interactive educational content, support of navigation of the healthcare system via chatbots, and connection to peer support networks, ultimately shifting the dynamic to one where patients are more active partners in their care.

However, alongside these advancements, significant challenges persist. Key pitfalls include biases in AI algorithms due to limited or skewed training data, which can amplify disparities in patient care. Privacy concerns and ethical issues arise with the use of sensitive health data, while the lack of regulatory frameworks hampers widespread adoption. Additionally, the integration of AI into clinical workflows can face resistance from healthcare professionals due to fear of automation or technical complexity. Despite these challenges, AI's transformative potential in improving accuracy, accessibility, and efficiency in healthcare and empowering patients remains substantial. Addressing these pitfalls through equitable data practices, robust regulation, and clinician training will be critical to ensuring AI's responsible and impactful deployment in healthcare systems worldwide.



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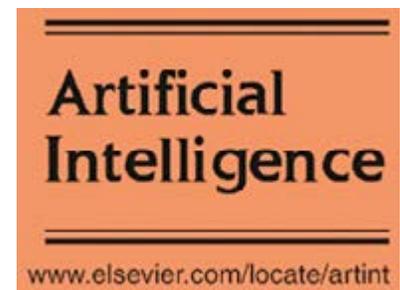
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Guided by Notre Dame's Mission, the Lucy Family Institute adventurously collaborates on advancing data-driven and artificial intelligence (AI) convergence research, translational solutions, and education to ethically address society's vexing problems. As an innovative nexus of academia, industry, and the public, the Institute also fosters data science and AI access to strengthen diverse and inclusive capacity building within communities.

VISION

To become the preeminent intellectual beacon, inspiring collaborative, equitable, and impactful data and artificial intelligence innovations as a global force for good.

OUR GOALS

1. Become the epicenter where disciplines and expertise collide to inspire and perform socially responsible, ethical, and impactful data science and AI research, education and interdisciplinary applications.
2. Pursue emergent research questions and translational challenges to accelerate data-driven and AI solutions for society's wicked problems.
3. Design and implement ethical and inclusive data science education programs to build access, capacity and leadership.
4. Cultivate a driven, agile, and inclusive environment that enables all team members to thrive and collectively deliver on the Institute's goals.
5. Establish the Lucy Family Institute as a collaborative, mission-driven, global thought leader.

To learn more about the Lucy Family Institute for Data & Society, or, to subscribe to the Institute's weekly newsletter, please visit lucyinstitute.nd.edu

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