MONDAY APRIL 22, 2024

7:00–9:00 AM
Registration and exhibits (Breakfast served from 8:00–9:00)

9:00–9:15 AM
Welcome
Azra Bihorac, MD, MS
Senior Associate Dean for Research | University of Florida College of Medicine

9:15–10:00 AM
Keynote address: Large language models in medicine—From RAGs to riches
Karandeep Singh, MD, MMSc
Chief Health Artificial Intelligence Officer | University of California San Diego School of Medicine

10:00–10:15 AM
Q&A

10:15–11:30 AM
How to create safe AI for health care and patients
Moderator: Elizabeth Palmer, PhD
Assistant Director for Research Training and Workforce Development | University of Florida College of Medicine

> **Guidelines for guidelines for guidelines: How bioethics supports essential AI governance**
> **Ken Goodman, PhD**
> Founder and Director of the Institute for Bioethics and Health Policy | University of Miami Miller School of Medicine
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> **Safe AI for health care and patients**
> **Bob Donnell, MD**
> Chief Medical Informatics Officer | University of Florida College of Medicine
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> **Multi-modal models of physiological deterioration and their implications on ethical AI**
> **Rishi Kamaleswaran, PhD, MSc**
> Associate Professor | Duke University School of Medicine

11:30–11:45 AM
Break and exhibits

11:45 AM–1:00 PM
Panel: Legal issues and ethics of sharing and using data in AI
Moderator: Barbara Evans, JD
Professor | University of Florida Levin College of Law

> **Derek Bambauer, JD**
> Irving Cypen Professor of Law | University of Florida Levin College of Law
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> **Barbara Evans, JD**
> Professor | University of Florida Levin College of Law
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> **Eric Rosenthal, MD**
> Associate Professor | Harvard Medical School
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> **Andrew Williams, PhD**
> Assistant Professor | Tufts University School of Medicine

1:00–2:00 PM
Lunch

2:00–3:00 PM
Panel: Navigating health decisions with data and AI
Moderator: Eric Rosenberg, MD
Associate Dean for Continuing Medical Education | University of Florida College of Medicine

> **Karandeep Singh, MD**
> Chief Health Artificial Intelligence Officer | University of California San Diego School of Medicine
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> **Ryan Nall, MD**
> Associate Professor of Medicine | University of Florida College of Medicine
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> **Ty Davis**
> Citizen Scientist | University of Florida College of Medicine

3:00–3:30 PM
Break and exhibits

3:30–4:30 PM
Panel: Pathways to innovation
Moderator: May Khanna, PhD
Assistant Dean of Innovation and Entrepreneurship | University of Florida College of Medicine

> **David Vaillancourt, PhD**
> Professor | University of Florida College of Health and Human Performance
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> **Jackson Streeter, MD**
> Director | UF Innovate Ventures
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> **Kaleb Smith, PhD**
> Senior Data Scientist/Site Lead | NVIDIA
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> **Huiwen Ju, PhD**
> Solutions Architect | NVIDIA

4:30–5:00 PM
Break and exhibits

5:00–7:00 PM
Reception
Directions will be provided

TUESDAY APRIL 23, 2024

7:00–8:00 AM
Breakfast and exhibits open

Morning sessions: Beyond pixels—AI innovations in imaging and spatial biology

8:00–8:15 AM
Welcome
Jennifer Hunt, MD, MEd
Interim Dean | University of Florida College of Medicine
Todd Brusko, PhD
Professor | University of Florida College of Medicine

8:15–9:45 AM
Clinical applications of AI in precision health: Digital pathology, spatial biology and AI
Moderators:
Pinaki Sarder, PhD
Associate Professor | University of Florida College of Medicine
Ramon Sun, PhD
Associate Professor | University of Florida College of Medicine

> **Towards the goal of empowering pathologists with image segmentation tools suitable for clinical workflow**
> **Ulysses G J. Balis, MD**
> Professor | Michigan Medicine
>
> **AI-driven approaches in spatial-omics**
> **Sizun Jiang, PhD**
> Assistant Professor | Harvard Medical School
>
> **Unveiling the future: The intersection of digital pathology, AI, and spatial biology**
> **Derek Allison, MD**
> Assistant Professor | University of Kentucky College of Medicine

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10:00–11:30 AM

AI in radiology and imaging
Moderators:
Victor Tonso, MD
Clinical Assistant Professor | University of Florida College of Medicine
Reza Forghani, MD, PhD
Professor | University of Florida College of Medicine

Impactful artificial intelligence tool evaluation and adoption in radiology: Opportunities & challenges
Reza Forghani, MD, PhD
Professor | University of Florida College of Medicine
Clinical AI tools in thoracic imaging: Current state
Bruno Hochhegger, MD, PhD
Professor | University of Florida College of Medicine
The AI lifecycle: Navigating the AI journey
Laura P. Coombs, PhD
Vice President of Data Science and Informatics | American College of Radiology

11:30–11:45 AM

Lunch pickup

11:45 AM–12:30 PM

Late breaking panel: Digital twins for the future of health care
Moderator: Benjamin Shickel, PhD
Assistant Professor | University of Florida College of Medicine
Azra Bihorac, MD, MS
Senior Associate Dean for Research | University of Florida College of Medicine
Andy Lin
Vice President of Strategy & Innovation | Mark III Systems

Afternoon sessions: Ageless horizons—Navigating the intersection of AI and digital health

12:45–2:00 PM

Wearable devices, remote patient monitoring and AI-assisted diagnostics
Moderator: Todd Manini, PhD
Professor | University of Florida College of Medicine

Lessons learned developing a digital health wearable platform to inform AI
Todd Manini, PhD
Professor | University of Florida College of Medicine
Smart watches with ECG functionality and opportunities for remote disease diagnosis: ECG-AI
Oguz Akbilgic, PhD
Associate Professor | Wake Forest University School of Medicine
Machine learning methods for actigraphy
Sanjay Ranka, PhD
Distinguished Professor | University of Florida Herbert Wertheim College of Engineering

2:00–3:15 PM

Application of AI in neuroscience and neurology
Moderator: Jennifer Bizon, PhD
Professor and Chair | University of Florida College of Medicine

AI + free-water imaging for diagnosing Parkinsonism
David Vaillancourt, PhD
Professor | University of Florida College of Health and Human Performance
The intersection between electrophysiology and neuroimaging: AI-guided deep brain stimulation
Joshua Wong, MD
Assistant Professor | University of Florida College of Medicine

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A tale of two frontiers: When brain meets AI — Natural intelligence-inspired AI and AI-empowered brain health
Ruogu Fang, PhD
Associate Professor | University of Florida College of Medicine

4:00–5:30 PM

Poster session

WEDNESDAY APRIL 24, 2024

7:00–8:00 AM

Registration, breakfast and exhibits

8:00–8:15 AM

Welcome
Patrick Tighe, MD, MS
Associate Dean for AI Application & Innovation | University of Florida College of Medicine

8:15–9:15 AM

Keynote address: So, we have AI in our QI toolbox now—What do we do with it?
Robyn Clay-Williams, PhD
Professor | Macquarie University Australian Institute of Health Innovation

9:15–10:15 AM

Assessing operations resilience when introducing AI-based technology
Emily Patterson, PhD
Professor | The Ohio State University College of Medicine

10:15–10:45 AM

Break and exhibits

10:45–11:45 AM

The journey of AI from computer to clinical workflow
Oguz Akbilgic, PhD
Associate Professor | Wake Forest University School of Medicine

11:45 AM–12:15 PM

Lunch Pickup

12:15–1:00 PM

AI in action (intensive)
Facilitators:
Ashley Benedict, PhD
Chief Project Management Officer | University of Florida Health Information Technology
Patrick Tighe, MD, MS
Associate Dean for AI Application & Innovation | University of Florida College of Medicine

1:00–2:00 PM

Responsibility at runtime—Making sense with AI. Making sense of AI.
Michael Rayo, PhD
Assistant Professor | The Ohio State University College of Engineering

2:00–3:00 PM

Using artificial intelligence to implement resilience engineering
Mary Patterson, MD, MEd
Associate Dean of Experiential Learning | University of Florida College of Medicine
Tyler Loftus, MD
Assistant Professor | University of Florida College of Medicine

3:00–3:15 PM

Break and exhibits

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3:15–4:15 PM

AI4QI Panel: Transdisciplinary collaboration for AI4QI — Rapid AI Prototyping and Development for Patient Safety (RAPiDS) grants program
Moderator: Patrick Tighe, MD, MS
Associate Dean for AI Application & Innovation | University of Florida College of Medicine
RAPiDS Grants Clinical Leads :
Improving maternal health by addressing social needs
Adetola Louis-Jacques, MD
Clinical Assistant Professor | University of Florida College of Medicine
Using AI to improve key patient safety indicators
Nicole M. Iovine, MD, PhD
Professor | University of Florida College of Medicine
Hospital Epidemiologist in Chief, Interim Chief Quality Officer | University of Florida Health Shands Hospital
MILK+: Maximizing Initiatives for Lactation Knowledge — An AI-powered solution for breastfeeding success
Helen Hu, MD
Clinical Assistant Professor | University of Florida College of Medicine
Patient specific maximum surgical blood ordering schedule
Keith Howell, MD
Associate Professor | University of Florida College of Medicine
AI QI Incubator Team:
Tanja Magoc, PhD
AI Engineer | University of Florida
Paul Nickerson, MS
Manager, AI QI Modeling and Technical Operations) | University of Florida

4:15–4:30 PM

AI for QI: Final thoughts
Patrick Tighe, MD, MS
Associate Dean for AI Application & Innovation | University of Florida College of Medicine

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