



INDIANAPOLIS

# ARTIFICIAL INTELLIGENCE AND INFORMATICS (AI<sup>2</sup>) CONSORTIUM

## “Accelerating Scientific Research with AI: AI Summit to Spark New Collaboration”

April 24<sup>th</sup> within the IO building 105 & 102 from 9.30-3pm

### Morning Session:

Coffee & Breakfast available

9.15am – 9.30am **IO ground floor lobby**

9:30 am–9:35 am **IO 105**

Welcome and Opening Address

Prof. Susan Walsh, AI<sup>2</sup> Consortium Director, Indiana University Indianapolis

9:35 am–10:20 am **IO 105**

### **Session I: Short update on AI & Basic Science Success Stories:**

*AI integration successful collaboration overviews – recent to established collaborations*

#### What to expect:

Several researchers will describe how the collaborations were set up, the data types available and how research questions were built together.

9.40-9.50am – Shiao-fen Fang, Luddy School of Informatics (Focus: Imaging)

9.50-10am – Lu Zhang, Luddy School of Informatics (Focus: Imaging)

10-10.10am - Saptarshi Purkayastha, Luddy School of Informatics (Focus: Health Informatics)

10.10-10.20am – Christine Picard, School of Science (Focus: Biology)

10:20 am–11:20 am **IO 102 & Lobby**

Grab a coffee and join the...

### **Round Table Discussion I: imaging, datasets, and open topics.**

#### What to expect:

Researchers can go to their specific interest area, whether data analytics, bioinformatics or image analysis. For those with data, we have grouped them by type and/or focus area. Below are table placards that you should go visit. For those with expertise in analyzing such data, regardless of project area/type, please visit as you could find a new project area!

- A. Images in health (e.g. MRI, CT, 2D, 3D)
- B. Images in basic research/diagnostics (e.g. Cellular Microscopy, Chemical EPGs)
- C. Health Records (e.g. Patient Health Records)
- D. Datasets for detecting patterns/tracking/prediction (Environmental/Chemical)
- E. Biological Datasets (Bioinformatics, RNA/DNA sequencing/Proteomics)
- F. Fundamental theory/Mechanism (Math/Physics)

11:20 am–11:40 am **IO 105**

### **Case study: From Question to Publication: How I Use AI Across the Entire Research Process**

Anne Leftwich, Associate Vice President for Learning Technology

11:40 am–12 pm **IO 105**

### **Strategies for Finding and Securing Funding for AI Research**

Ally Boyington, Office of Research & Development

12:00 pm–12:50 pm **IO ground floor lobby**

Lunch and Networking

## **Afternoon Session**

12:00 pm–12:50 pm **IO ground floor lobby**

Lunch and Networking

12.50 pm –2 pm **IO 105**

**Session II: Research Challenges in Focus - targeted new research questions and answers provided by faculty.**

*What to expect:*

New Targeted Research Questions will be asked per Dept/Research area – the idea is to present the problem to an audience that can think of a solution which shall be discussed directly with the presenter during Discussion II. We shall also connect researchers directly if they feel they can help the presenters. There may be time for one or two questions/discussion points during the 10 min pitch, but in general this is a tight schedule to hear all the project pitches interested in applying for funding this year. It may give the audience additional ideas/topics worth exploring in their field!

1-1.10pm	Mohammad A Hasan (Luddy, Focus: Math)
1.10-1.20pm	Teri Belecky-Adams (SOS, Focus: Neuroscience)
1.20-1.30pm	Nick Manicke (SOS, Focus: Chemistry)
1.30-1.40pm	Lixin Wang (SOS, Focus: Earth Science)
1.40-1.50pm	Arjan Durresti (Luddy, Focus: Trustworthy Decision Making and AI)
1.50-2pm	Kyle Minor (SOS, Focus: Psychology)

2pm– 2:40 pm **IO 105 & Lobby**

Grab a coffee and join the...

**Round Table Discussion II: Discuss solutions to Session II and raise your own research questions for discussion to seek potential partners.**

*What to expect?*

The presenters will be available during this time, or part of this time to discuss solutions. If the presenter is unavailable, there is a sheet to sign your name and short suggestion so that we may connect you both. There can also be impromptu presentations where those that have a question or would like to discuss their question can create a placard and invite discussion. Please come with a question or ready to help others through collaboration, with the goal of applying for funding together!

2:40 pm–3 pm **IO 105**

**University Research Support**

Michael Famiano, Director for Research and Faculty Development, IU Research

3:00 pm **IO 105 Closing and Strategic Next Steps**

## **Registration**

Register for the [Morning Session](#)

Register for the [Afternoon Session](#)

Register for the [Full-Day Event](#)

## **Organizers**



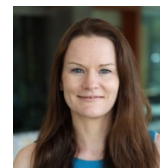
**Kefeng (Maylene) Qiu**  
Director SciTech Commons  
& Research Development.  
OVCR Indianapolis



**Brian Dixon**  
Director of Public  
Health Informatics  
Regenstrief Institute



**Shiao-fen Fang**  
Associate Dean of Research  
& Director AI Center  
Luddy School IUI



**Susan Walsh**  
Director of AI<sup>2</sup>  
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