

## Workshop

# Artificial Intelligence in Medicine - The Future is Now

July 19, 2018 at the Mayo Civic Center (Room 112/113)

8:45 – 9:30 am	Registration. Continental Breakfast, Posters, & Networking
9:30 – 9:40 am	Welcome and Introductions Keith Stewart, Director, Center for Individualized Medicine, Mayo Clinic Andreas Cangelaris, Provost, University of Illinois at Urbana-Champaign (UIUC)
9:40 – 10:10 am	Artificial Intelligence Overview – What Does it all Mean? Ravi Iyer, Professor, Dept. of Electrical and Computer Engineering, UIUC
10:10 – 10:40 am	Keynote – Why Artificial Intelligence is Important to Medicine? Andrew Limper, Associate Dean of Practice Transformation, Center for the Science of Healthcare Delivery, Mayo Clinic
	<b>Real World Success Stories of Artificial Intelligence in Medicine</b>
10:40 – 11:05 am	Cardiology: Left ventricular systolic function with electrocardiograms using machine deep learning. Francisco Lopez-Jimenez; Itzhak Zachi Attia, Mayo Clinic
11:05 – 11:30 am	Psychiatry: Making Artificial Intelligence Clinically Actionable — Individualizing Predictions of Antidepressant Response by Augmenting Psychiatrist's Clinical Assessments with Pharmacogenomics Markers. Arjun Athreya, UIUC; with intro by Richard Weinshilboum, Mayo Clinic
11:30 – 12:30 pm	<b>LUNCH</b> Discovery Square - Chris Schad, Director of Business Development, Discovery Square Medical Alley - Frank Jaskulke, Vice President, Intelligence, Medical Alley
12:30 – 12:45 pm	Remarks from Greg Gores, Executive Dean for Research, Mayo Clinic
	<b>Real World Success Stories of Artificial Intelligence in Medicine</b>
12:45 – 1:10 pm	Neurology: Spatial & Temporal Epileptic Seizure Forecasting Gregory Worrell, Mayo Clinic; Yoga Varatharajah, UIUC
1:10 – 1:35 pm	Imaging: AI in Radiology - A disruptive force of change or technical fad? Armando Manduca, Mayo Clinic
1:35 – 2:35 pm	<b>Artificial Intelligence Technology Panel</b> – Facilitator, Eric Klee, Mayo Clinic Infosys – Venky Ananth; Numares AG – Philipp Pagel; Epic – James Hickman; UIUC – Mohammed El-Kebir, Sanmi Koyejo, Jian Peng
2:35 – 2:55 pm	<b>BREAK</b>
2:55 – 3:45 pm	<b>Clinicians and Informaticians Panel</b> – Facilitator, Kieran McGee, Mayo Clinic Mayo Clinic - Robert Diasio, James Ingle, Prashanthi Vemuri, Nicholas Chia
3:45 – 4:00 pm	Where do we go from here? Ravi Iyer, UIUC
4:00 pm	Informal Round Table Discussions

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**Organizing Committee:** Richard Weinshilboum, MD (Mayo), Liewei Wang, MD, PhD (Mayo), Kieran McGee, PhD, (Mayo), Konstantinos Lazaridis, MD (Mayo), Eric Klee, PhD (Mayo), Ravi Iyer, PhD (UIUC)

**Sponsoring Organizations:** Center for Computational Biotechnology and Genomic Medicine (CCBGM), University of Illinois, Urbana – Champaign, Mayo Clinic – Center for Individualized Medicine, Center for Artificial Intelligence Driven Health Data Systems and Analytics (UIUC)

