



RUTGERS HEALTH

**Center for Biomedical Informatics
and Health Artificial Intelligence**

Institute for Health, Health Care Policy and Aging Research

Presents

Annual Symposium

May 13th, 2025

Rutgers Student Center, College Ave Campus | 126 College Avenue, New Brunswick, NJ

Frontiers in Biomedical and Health AI: Applications, Challenges, and Opportunities

Sponsored by

Google Health

Google Cloud

aws

ORACLE



IEEE

AI

Event Schedule

8:45 – 9:15	Coffee and Continental Breakfast		
9:15 – 10:00	Leadership Addresses	Antonina Mitrofanova Bishr Omary Prabhas V. Moghe	
10:00-11:30	Frontiers in Health and Clinical AI		
	10:00-10:15	Evan Johnson	Robust Multi-Study Learning for Molecular Biomarker Discovery
	10:15-10:30	Naveena Yanamala	Bridging AI, Wearables, and Medical Imaging for Equitable Healthcare Access
	10:30-10:45	Divya Kewalramani	The Use of Artificial Intelligence to Reduce Global Surgical Disparities
	10:45-11:00	Anat Kreimer	Coupling Functional Genomics Techniques with Computational Modeling to Understand Context-Specific Gene Regulation
	11:00-11:15	Zeeshan Ahmed	Multimodal AI/ML Approach to Discover Novel Biomarkers, Predict Disease, and Profile Patients for Precision Medicine
	11:15 -11:30	Subhajyoti De	Genome Informatics and Precision Medicine in Cancer
11:30-11:50	Coffee break and networking		
11:50 – 1:20	AI in Precision Medicine		
	11:50-12:05	David Foran	Computational Biomarkers & Multi-modal Databases for Research, Discovery and Decision Support
	12:05-12:20	Chang Chan	Identifying Cancer Drivers with AI and Transcriptomics
	12:20-12:35	Priya Kachroo	Integration of Omics and Machine Learning - Precision Medicine Opportunities for Lung Health Outcomes
	12:35-12:50	Jason Yang	Interpretable Machine Learning for Biological Discovery and Design
	12:50-1:05	Jackie Yang	Decoding Immune Cell Fate in Cancer: Integrating Single-Cell Multiomics, Spatial Transcriptomics, and AI-Driven Models
	1:05-1:20	Zhi Wei	Leveraging AI and Machine Learning for Omics Data Analysis and Precision Medicine
1:20-2:20	Lunch and networking		

2:20-2:50 (30 mins)	Panel discussion	Evan Johnson (Rutgers) Travis Williams (ORC) Fay Cobb Payton (Rutgers Newark) Jared Saul (Amazon) Willis Zhang (Google Health) John Havens (IEEE) Maria Palombini (IEEE) Lauren Farese (Oracle)	“Ethics, Bias, and Fairness in AI”
2:50-2:55	Panel to speaker transition		
2:55-4:30	AI in Rehabilitation and Clinical Decision Making		
	2:55-3:10	Soha Saleh	Leveraging Machine Learning and EEG-Based Measures of Brain Connectivity for Predicting Stroke Motor Recovery
	3:10 -3:25	Ellen Francis	From Patterns to Pathways: Unsupervised Approaches to Metabolic Profiling in Pregnancy
	3:25-3:40	Elizabeth Handorf	Machine Learning Models Predicting Delays in Cancer Treatment
	3:40 -3:55	Lanjing Zhang	Fundamental Biomedical Laws and Machine Learning”
	3:55-4:10	Jay Naik	AI-Driven Clinical Innovation: Lessons from Multidisciplinary Healthcare Hackathons
4:10 – 4:30	Coffee break and networking		
4:30-5:00 (30 mins)	Panel discussion	Naveena Yanamala (Rutgers) James Geller (NJIT) Phyllis Caputo (IEEE) Jared Saul (Amazon) Lauren Farese (Oracle) Dan Nguyen (Palantir)	“AI Careers in Academia and Industry “
5:00-5:05	Panel to speaker transition		
5:05-6:05	Ethical considerations and data accessibility in the era of AI (with industry partners)		
	5:05-5:20	Lauren Farese (Oracle)	Framework for Ethical AI
	5:20-5:35	Jared Saul (Amazon)	Healthcare AI: careers, future and role of physicians
	5:35-5:50	Willis Zhang (Google Health)	More Accessibility and Usefulness for Health Data
	5:50-6:05	Anita Kinney	From Code to Clinic: Implementing AI Chatbots to Enhance Access to Hereditary Cancer Genetic Testing
6:05-6:10	Leadership address	Kathleen Scotto	
6:10-6:15	Leadership Address	Andrew Zwicker	
6:10-7:30	Poster session: Wine and cheese reception	Industry stands/displays: Rutgers SHP, IEEE, Amazon, Oracle, Google Health	Poster chair: Priya Kachroo (Rutgers, SHP)