

## Institute of Bioinformatics at the University of Georgia

IOB Symposium 2023 | Dates: October 16-17th

Agonda – OCT 16th	
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8:00 - 8:45 a.m.	REGISTRATION (Conference Registration Desk)
	BREAKFAST (entry Masters Hall)
	POSTER SETUP (Pecan Tree Galleria)
8:45 - 9:00 a.m.	Welcome and Introductions — Dr. Natarajan Kannan
	Remarks (introduction by Dr. Kannan)
	Dr. Karen Burg, Vice President, Office of Research
9:00 - 9:50 a.m.	Keynote #1 — Dr. Arvind Ramanathan, Argonne National Laboratory
	Title: "Integrating generative AI with automation and simulations for biological systems
	design"
09:50 - 10:20 a.m.	REFRESHMENT BREAK (Pecan Tree Galleria)
10:20 - 11:10 a.m.	Keynote #2 — Dr. Jian Hu, AI Genomics Lab, Emory
	Title: "Statistical and machine learning methods for Spatial Genomics"
11:10 a.m 12:00 p.m.	Keynote #3 — Dr. Adrienne Hoarfrost, UGA
	Title: "Deep Learning Gateways to Illuminating the Functional Potential and Ecosystem
	Impacts of Microbial Communities"
12:00 - 1:15 p.m.	LUNCH (Magnolia Ballroom)
1:15 - 2:00 p.m.	Poster Session (Pecan Tree Galleria)
2:00 - 2:45 p.m.	Short talks #1 - Student Talk, Zhongliang Zhou
	Title: Explaining the black box - Unraveling Protein Language Model's Learning
	Mechanisms for Kinase-Specific Phosphorylation Prediction
	Short talks #2 - Shan Yang, PhD, MBA, STOmics
	Title: A bioinformatics tool enables accurate single-cell segmentation for spatial
	transcriptomics dataset
2:45 - 3:15 p.m.	REFRESHMENT BREAK (Pecan Tree Galleria)
3:15 - 4:05 p.m.	Keynote #4 — Dr. Andrew D. White, Rochester University
	Title: "From Intent to Compound: Chemistry with Agents"
4:10 - 4:25 p.m.	Symposium Closing — Awards, Closing Remarks



	Agenda - Workshop   OCT 17th
7:30 - 8:30 a.m.	BREAKFAST (entry Masters Hall)
8:30 - 8:45 a.m.	Welcome and Introductions — Dr. Natarajan Kannan
9:00 - 10:15 a.m.	Workshop Session #1 — Dr. Sheng Li
	Title: "Deep Learning and Protein Language Models: Foundations and Challenges"
10:15 - 10:30 a.m.	REFRESHMENT BREAK (Pecan Tree Galleria)
10:30 a.m 12:00 p.m.	Workshop Session #1 — Dr. Sheng Li, continued
	Title: "Deep Learning and Protein Language Models: Foundations and Challenges"
12:00 - 1:00 p.m.	LUNCH (entry Masters Hall)
	Boxed Lunch
1:00 - 2:15 p.m.	Workshop Session #2 — Dr. Jian Hu
	Title: "Statistical Analysis for Next-Generation Sequencing(NGS) Data."
2:15 - 2:30 p.m.	REFRESHMENT BREAK (Pecan Tree Galleria)
2:30 - 3:00 p.m.	Workshop Session #2 — Dr. Jian Hu, continued
	Title: "Statistical Analysis for Next-Generation Sequencing(NGS) Data."
3:00 - 3:15 p.m.	Workshop Closing

