



JOHNS HOPKINS

WHITING SCHOOL  
of ENGINEERING

+ amazon

AI2AI

JHU + Amazon Initiative for Interactive AI

# AI2AI Research Festival

Glass Pavilion / Johns Hopkins Homewood Campus / October 10, 2024

8:30 - 9:00 a.m.

**Breakfast + Coffee**

9:00 - 9:20 a.m.

**Welcome and Introduction from JHU + Amazon**

**Sanjeev Khudanpur**, Initiative Director + Associate Professor

**Ed Schlesinger**, Benjamin T. Rome Dean

**Ariya Rastrow**, AI2AI Liaison + Sr. Principal Scientist, AGI, Amazon

9:20 - 9:45 a.m.

**Research Overview (Amazon)**

**AGI: Grant Strimel**, Principal Applied Scientist, AGI

**Search: Tanya Roosta**, Applied Science Manager, Search Engine Technologies

9:45 - 11:00 a.m.

**AI2AI Research Awards Spotlight + Introductions**

**2023 - 2024 Spotlight**

**Leibny Paola Garcia Perera**, 2023 - 2024 Faculty Research Awardee

**Sunwoo Kim**, Applied Scientist, AGI, Amazon

**2024 - 2025 Awardee Lightning Talks**

**Mahyar Fazlyab**, "Reliable and Robust Alignment of Large Language Models"

**Eric Nalisnick**, "Safe and Efficient In-Context Learning via Risk Control"

**Leibny Paola Garcia Perera**, "Multimodal Shared Representations: Speech, Text, and Video"

**Kimia Ghobadi**, "Multimodal LLM Framework for Heterogenous Alphanumeric Data"

**Tianmin Shu**, "Multimodal Theory of Mind for Engineering Socially Intelligent Embodied AI Assistants"

**Ziang Xiao**, "Interactive and Contextualized Evaluation for Large Language Models"

**Daniel Khashabi**, "Language Models with Easily-Verifiable Generations"

**Alan Yuille**, "Combining LVMs with LLMs to Improve Vision-Language Models"

11:00 - 11:15 a.m.

**Coffee Break**

Agenda continued on reverse

**11:15 a.m. - 12:00 p.m.**

## **Equity, Fairness and Bias in AI**

Moderator: **Sanjeev Khudanpur**, Initiative Director

Panel: **Ritu Agarwal**, William Polk Carey Distinguished Professor

**Anjalie Field**, Assistant Professor, Computer Science

**Grant Strimel**, Principal Applied Scientist, AGI

**Tanya Roosta**, Applied Science Manager, Search Engine  
Technologies, Amazon

**Ambar Pal**, 2023-2024 Amazon Fellow + Applied Scientist, AWS  
Responsible AI

**12:00 - 1:00 p.m.**

## **Lunch + Poster Session**

**1:00 - 1:30 p.m.**

## **Amazon Fellow Spotlight + Introductions**

### **2023-2024 Spotlight**

**Ambar Pal**, 2023 - 2024 Amazon Fellow

### **2024 - 2025 Cohort**

**Yunjuan Wang**, “Robust Adversarial Learning from a Theoretical  
Perspective”

**Yiqing Shen**, “Toward Efficient and Cognizant Physical Security  
Systems: Real-Time Object Interaction Analysis with State Space Models  
and Vision-Language Model for Informative Video Summarization”

**Amir Hussein**, “Long-form Conversational Speech Translation”

**Drew Prinster**, “Reliable and Regulatable AI via Efficient Conformal  
Prediction for Any Data Distribution”

**1:30 - 2:15 p.m.**

## **AI for Scientific Discovery**

Moderator: **Rama Chellappa**, Bloomberg Distinguished Professor

Panel: **Jing Liu**, Sr. Applied Scientist, AGI

**Michael Owen**, Sr. Applied Scientist, AGI

**Josh Peek**, Space Telescope Science Institute, Head Data Science  
Mission Office

**Mitri Taheri**, Professor, Material Science and Engineering

**Jeff Gray**, Professor, Chemical and Biomolecular Engineering

**2:15 - 3:00 p.m.**

## **Amazon Science + Internships Panel**

**Ali Godfrey**, Sr. Recruiter, Science, Amazon

**Nathan Susanj**, Applied Science Manager, AGI, Amazon

**Malsha Perera**, PhD Student, JHU

**Roy Siegelmann**, PhD Student, JHU

**2:15 - 3:00 p.m.**

## **AMZ + JHU Meetings**

Amazon scientists are encouraged to meet with past, present, or future  
JHU researchers.

[ai2ai.engineering.jhu.edu](https://ai2ai.engineering.jhu.edu)  
[ai2ai@jhu.edu](mailto:ai2ai@jhu.edu)

Johns Hopkins University  
Whiting School of Engineering  
3400 N. Charles Street  
Baltimore, MD 21218-2608  
[engineering.jhu.edu](https://engineering.jhu.edu)