July 1, 2022

An RSS 2022
Workshop

Organizers and PC

Brian Plancher
Assistant Professor
Barnard College, Columbia University
Associate
Harvard University

Sarah Tang
Staff Software Engineer, Planning
Waymo

Sabrina M. Neuman
Postdoctoral Fellow
Harvard University

Vijay Janapa Reddi
Associate Professor
Harvard University

MIND THE GAP

Opportunities and Challenges in the Transition Between Research and Industry

Program Committee

Sherry Chen
Chef Robotics, Inc

Radhika Ghosal
Harvard University

Lev Grossman
Berkshire Grey

Jason Jabbour
University of Virginia / Harvard University

Nigamaa Nayakanti
Waymo

Krithika Swaminathan
Harvard University

Purpose of this Workshop

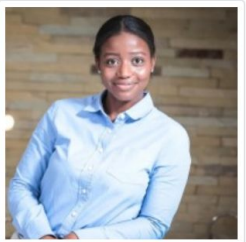
We also hope that this workshop will lead to discussions around:

- Retrospectives on Deployments and Running Algorithms at Scale
- Integration of Algorithms and Hardware
- Surprising Real-World Constraints, Pitfalls, and Corner Cases (& ways to avoid them)
- How Users Impact Design Decisions
- The Biggest Challenges Facing Industry over the Next Decade
- Ways for Industry and Academia to Collaborate
- Main Gaps in Academic Research that need to be “Filled In” for Industry Use

Speakers

Vivian Chu
Co-Founder and CEO
Diligent Robotics

Kristen Holtz
Head of Tracking & Cinematics
Skydio

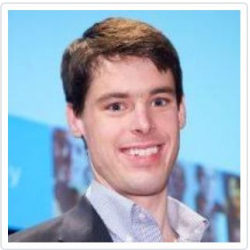


Vuyo Makhuvha
Head of Strategy and Growth
August Robotics

Sadra Sadraddini
Principal Robotics Engineer
Dexai Robotics

Zack Jackowski
Chief Engineer - Spot
Boston Dynamics

Shaoshan Liu
Founder and Chairman
PerceptIn



Collin Otis
Head of Perception
Kodiak Robotics

Plus Three Lightning Talks:

Lessons Learned from Large-Scale Mobile Robot Deployments in Warehouse Environments

Can you pick that? Problems with Vision for Robotic Pick-and-Place Applications

RealAIGym: Education and Research Platform for Studying Athletic Intelligence

Schedule

Time	Topic
9:00-9:15	Welcome and Agenda by the Organizers
9:15-9:55	Vuyo Makhuvha - August Robtoics
9:55-10:35	Vivian Chu - Diligent Robotics
10:35-10:50	Break
10:50-11:30	Shaoshan Liu - PerceptIn
11:30-12:00	Lighting Talks on Accepted Abstracts • Lessons Learned from Large-Scale Mobile Robot Deployments in Warehouse Environments | PDF • Can you pick that? Problems with Vision for Robotic Pick-and-Place Applications | PDF • RealAIGym: Education and Research Platform for Studying Athletic Intelligence | PDF
12:00-12:30	Lighting Talk Q&A Breakouts
12:30-2:00	Lunch Break
2:00-2:40	Kristen Holtz - Skydio
2:40-3:20	Zack Jackowski - Boston Dynamics
3:20-3:35	Break
3:35-4:05	Sadra Sadraddini - Dexai Robotics
4:05-4:45	Collin Otis - Kodiak Robotics
4:45-5:00	Workshop Closing by the Organizers

Logistics

We will post everything on our website: https://realworldrobots.github.io/

- Recorded Videos, Slides, etc. (it may take a week or so to get that all up)

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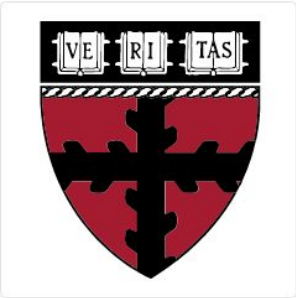
Questions: each talk will be ~30 minutes followed by ~10 minutes of Q&A

- In person: raise your hand
- Online: type your questions into the chat
- We will alternate between in person and online questions!

Thanks to our Supporters



Harvard John A. Paulson School of Engineering and Applied Sciences

Barnard College, Columbia University

Waymo

IEEE Entrepreneurship

Shameless Plug

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The Barnard Accessible and Accelerated Robotics Lab

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