## **2025 IEEE Summer School and Workshop on Photonics Automation**

Date: July 7, 2025

Location: CUNY ASRC Auditorium



Chair	Time & Type	Speaker & Affiliation	Title		
ਹਿ	09:00-09:10	Viktoriia Rutckaia	Introductory comments		
Prachi Thureja	09:10-09:40 Keynote 1	Prof. Gabriele Grosso ASRC CUNY	Photoluminescence spectroscopy automation for quantum optoelectronics		
	09:40-10:00 Invited 1	Dr. Matthew C. Strasbourg Columbia University	Practical Python in the lab: high-throughput optical spectroscopy of quantum materials		
	10:00–10:20 Invited 2	Dr. Deepankur Thureja <i>Harvard University</i>	Disentangling weakly coupled modes via global fitting of optical spectra		
	10:20-10:40	Coffee Break			
Lin Jing	10:40–11:10 Keynote 2	Prof. Haogang Cai NYU	Inverse design of meta-optics using Python		
	11:10–11:40 Keynote 3	Prof. Euclides Almeida Queens College CUNY	Engineering nonlinear metasurfaces for light generation and control		
	11:40–12:00 Invited 3	Sarah Jane Baker ASRC CUNY	Automating data collection using Python		
	12:00-13:30	Lunch Break, <b>Lab Tours</b>			
Giacomo Venturi	13:30–14:00 Keynote 4	Prof. Eileen Otte University of Rochester	Beyond the Beam: The Potential of Light's Structure		
	14:00-14:20 Invited 4	Dr. Michael de Oliveira  ASRC CUNY	Shaping Light on Demand (with a Few Lines of Code)		
	14:20–14:50 Keynote 5	Prof. Samantha Roberts ASRC CUNY	Generative AI for research		
	14:50-15:10 Invited 5	Dr. Pratap Chandra Adak CCNY CUNY	Magnon-mediated exciton-exciton interactions in a van der Waals antiferromagnet		
	15:10-15:30	Coffee Break			
Vika Rutckaia	15:30–15:45 Industry Session	James Scholtz Vyir Tech	-		
	15:45–16:00 Contributed 1	Joseph Demarest Vyir Tech	_		
	16:00–16:15 Contributed 2	Sofia Sechi University of Cagliari	Automation of a mid-infrared pump-probe spectroscopy setup		
	16:15-16:20	Viktoriia Rutckaia	Closing remarks		
	16:20-17:00	Laptop check for participants joining hands-on sessions (July 8-10)			