

2025 IEEE Workshop and Summer School on Photonics Automation

Date: July 7, 2025

Location: CUNY ASRC Auditorium



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