2025 IEEE Workshop: Photonics Automation with Python

Date: July 7, 2025

Location: CUNY ASRC Auditorium

Time & Type	Speaker & Affiliation	Title
09:00–09:10	Viktoriia Rutckaia	Introductory comments
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 *Harvard University*	Disentangling weakly coupled modes via global fitting of optical spectra
10:20–10:40	Coffee Break	
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	
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	
15:30–15:45 Contributed 1	–	–
15:45–16:00 Contributed 2	–	–
16:00–16:15 Contributed 3	–	–
16:15–16:30 Contributed 4	–	–
16:30–16:35	Viktoriia Rutckaia	Closing remarks