

Optics for information processing in the 21th century

Wednesday, May 23

20:00: -- Welcome dinner at the Villa

Thursday, May 24

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9:00 - 9:45	David A.B. Miller – Stanford University Arbitrary self-configuring linear transforms: optics that designs itself to do anything
9:45-10:30	Florent Krzakala - Ecole Normale Supérieure Paris From Compressive imaging to machine learning using multiple light scattering
10:30-11:00	Coffee Break
11:00-11:45	Demetri Psaltis – Ecole Polytechnique Fédérale de Lausanne Teaching optical systems by example
11:45-12:30	Kelvin Wagner – University of Colorado Boulder Convolutional Deep Optical Learning
12:30-14:00	Lunch at the Villa
14:00-14:45	Yeshaiahu Fainman – University of California San Diego Nanophotonics for Information Systems
14:45-15:30	Riccardo Sapienza – Imperial College London Photonic networks as a mesoscopic resource for light design
15:30-16:00	Coffee Break
16:00-16:45	Panel Discussion 1 – Optics in computing
16:45-17:30	Jason Fleischer – Princeton University Quantum and quantum-inspired imaging
17:30-18:15	Alexander Jesacher – Medizinische Universität Innsbruck Engineered Image Scanning Microscopy: Combining tailored optical transfer functions with multi-view image reconstruction
18:15-20:00	Drink and Poster session
20:00:	Conference dinner at the Villa

Friday, May 25

9:00 - 9:45	Christophe Moser - Ecole Polytechnique Fédérale de Lausanne Learning multimode fiber transmission with artificial deep neural networks
9:45-10:30	Monika Ritsch-Marte - Medizinische Universität Innsbruck Holographic multi-colour wavefront shaping for multiplexed optical imaging
10:30-11:00	Coffee Break
11:00-11:45	Ori Katz – Hebrew University Jerusalem Imaging with Scattered Light
11:45-12:30	Guillaume Maire Super-resolution in diffraction microscopy: The interest of digital reconstruction
12:30-13:30	Lunch at the Villa
13:30-14:15	Panel Discussion 2 – Optics for information processing in imaging
14: 15-15:00	Coffee and Poster session
15:00:	Guided city tour
	Dinner downtown on your own

Saturday, May 26

9-9:45	Michal Lipson – Columbia University Next generation photonic components for scalable integrated systems
9:45-10:30	Alexander Gaeta – Columbia University Photonic-Chip-Based Quantum Number Generation and Ising Machine
10:30-11:00	Coffee Break
11:00-11:45	Future of OIP & Closing remarks
12:30-14:00	Lunch at the Villa