

Virtual Super-Resolution Workshop Programme 2021

Friday 9 July – 12:30-17:00 BST

12:30 – 14:30 Session One: Deep Learning: Introduction and Welcome from Hari Shroff and Michelle Peckham

- 12:35 Aubrey Weigel - *Towards automatic organelle segmentation in whole-cell volume electron microscopy*
- 12:50 Dong Li - *Super-resolution structured illumination microscopy via deep learning*
- 13:05 Dylan Owen – *Statistical and computational methods for quantifying nano-scale protein distributions*
- 13:20 Florian Jug – (Talk Title TBC)
- 13:35 Susan Cox – *Detecting Artifacts in Localization Microscopy Images*
- 13:50 – 14:30 General discussion, speakers and audience
- 14:30 – 15:00 Break

15:00 – 17:00 Session Two: Expansion Microscopy

- 15:00 Brief Introduction from Hari Shroff and Michelle Peckham
- 15:05 Helge Ewers – *Combining Expansion with STED microscopy*
- 15:20 Izzy Jayasinghe – *Adaptation of Expansion Microscopy for 3D imaging of intracellular signalling nanodomains*
- 15:35 Joshua Vaughan - *Feature-rich covalent stains for super-resolution and cleared tissue fluorescence microscopy*
- 15:50 Matt Kose-Dunn - *Enabling higher throughput expansion microscopy with the Kinetix sCMOS camera*
- 16:00 Gerti Beliu - *Pushing the limit of nanoscale imaging: Genetic Code Expansion Microscopy*
- 16:15 Silvio Rizzoli – *Labelling samples for expansion microscopy: pitfalls and advantages*
- 16:30 General discussion, speakers and audience
- 17:00 Thanks, and close