

## 2<sup>nd</sup> International Training Course on Challenges in Image Data Management and Analysis

### PROGRAMME

*19<sup>th</sup>-21<sup>st</sup> September 2018  
UTS Sydney*

*Each session is composed of an introductory didactic lecture followed by a hands-on session.*

### DAY 1 - Wednesday, September 19<sup>th</sup> 2018

12:30 - 14:00	Lunch	
14:00 - 14:15	Welcome and introduction	
<b>SESSION I: Data management, anonymization, provenance and curation</b>		
14:15 - 15:00	<i>Lecture: "Data management, anonymization, provenance and curation"</i>	Andrew Janke (CAI, University of Queensland, AUS)
15:00 - 15:45	<i>Lecture: "Image data management"</i>	Jason Swedlow (University of Dundee, UK)
<b>15:45 - 16:00</b>	Coffee Break	
16:00 - 17:15	<i>Hands-on: "Data Management with OMERO"</i>	Petr Walczysko (University of Dundee, UK)
17:15 - 18:30	<i>Hands-on: "Data management, anonymization, provenance and curation"</i>	Andrew Janke (CAI, University of Queensland, AUS)
18:30 - 20:00	<i>Brush up session on relevant basic computing skills</i>	

**DAY 2 - Thursday, September 20<sup>th</sup> 2018**

<b>SESSION II: Object tracking, signal quantification, statistics and feature extraction</b>		
09:00 - 09:20	<i>Lecture: "iCluster"</i>	Nick Hamilton (Institute of Molecular Bioscience, University of Queensland, AUS)
09:20 - 10:50	<i>Hands-on: "iCluster"</i>	Nick Hamilton (Institute of Molecular Bioscience, University of Queensland, AUS)
<b>10:50 - 11:10</b>	<b>Coffee Break</b>	
11:10 - 11:30	<i>Lecture: Atom probe</i>	Anna Ceguerra (University of Sidney, AUS)
11:30 - 13:00	<i>Hands-on: Atom probe</i>	Anna Ceguerra (University of Sidney, AUS)
<b>13:00 - 14:00</b>	<b>Lunch</b>	
<b>SESSION III: Cloud-based analysis, compression and storage</b>		
14:00 - 14:20	<i>Lecture: "Cloud based analysis, compression and storage"</i>	Trainer TBC
14:20 - 15:50	<i>Hands-on: "Cloud based analysis, compression and storage"</i>	Trainer TBC
<b>15:50 - 16:10</b>	<b>Coffee Break</b>	
16:10 - 16:30	<i>Lecture: "Running a medical-image-analysis pipeline in the cloud"</i>	Thomas Close MBI
16:30 - 18:00	<i>Hands-on: "Cloud based analysis of MRI data using XNAT"</i>	Thomas Close MBI
<b>18:00</b>	<b>Course Dinner</b>	

**DAY 3 - Friday, September 21<sup>st</sup> 2018**

<b>SESSION IV: Segmentation, Image filtering and pre-processing</b>		
09:00 - 09:20	<i>Lecture: "OMERO plug ins from UTS"</i>	Christian Evenhuis & Peter Sefton
09:20 - 10:50	<i>Hands-on: "OMERO plug ins from UTS"</i>	Christian Evenhuis & (Michael Lynch, Peter Sefton, Sharyn Wise, Moises Sacal) UTS
<b>10:50 - 11:10</b>	<b>Coffee Break</b>	
11:10 - 11:30	<i>Lecture: "Cardiac 4DFlow"</i>	Stuart Grieve (University of Sidney, AUS)
11:30 - 13:00	<i>Hands-on: "Cardiac 4DFlow"</i>	Stuart Grieve (University of Sidney, AUS)
<b>13:00 - 14:00</b>	<b>Lunch</b>	
<b>SESSION V: New horizons</b>		
14:00 - 14:20	<i>Lecture: "Public image data resources"</i>	Jason Swedlow (University of Dundee, UK) Andrew Janke (CAI, University of Queensland, AUS)
14:20 - 15:50	<i>Hands-on: "Public image data resources"</i>	Jason Swedlow (University of Dundee, UK) Andrew Janke (CAI, University of Queensland, AUS)
<b>15:50 - 16:10</b>	<b>Coffee Break</b>	
16:10 - 17:10	<i>Lecture TBC</i>	Graham Galloway (CAI, University of Queensland, AUS)
17:10 - 17:30	<i>Closing remarks and feedback</i>	Jason Swedlow (University of Dundee, UK)