Research Data Management

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Outline Lectures

- Research data and data management planning
 - What are research data
 - Research data lifecycle
 - Data types, formats, models and standards
 - Metadata
 - Data management, plans and planning tools
- Working with research data
 - Access to research data
 - Data transformations
 - Data storing and databases
 - Versioning and backup
- Sharing and archiving research data
 - Benefits and challenges
 - Data identification and citation
 - Data repositories

Outline Exercises

- Write a data management plan with DMPonline
- Versioning data with GitHub
- Archive data with figshare and PANGAEA

Schedule

09:00 - 09:15	Welcome and Overview	
Part I		
09:15 - 09:45	Lecture	Research Data and Data Management Planning
09:45 - 10:15	Exercise	Write a Data Management Plan with DMPonline
10:15 - 10:30	Break	
Part II		
10:30 - 11:00	Lecture	Working with Research Data
11:00 - 11:30	Exercise	Versioning Data with GitHub
11:30 - 11:45	Break	
Part III		
11:45 - 12:15	Lecture	Sharing and Archiving Research Data
12:15 - 12:45	Exercise	Archive Data with figshare and PANGAEA
12:45 - 13:00	Closing	Final questions and comments

Online training material

- ESIP Federation Data Management Short Course for Scientists
 - ▶ http://commons.esipfed.org/datamanagementshortcourse
- University of Edinburgh, Research Data Management Training
 - http://mantra.edina.ac.uk/
- Coursera, Research Data Management and Sharing
 - ▶ https://www.coursera.org/learn/data-management
 - Starts September 11