Course title: Introduction to NeuroImaging Data Science (NIDS)

Organizer(s): Michael Dayan, PhD, Campus Biotech

ECTS:  
Module 1: 2 ECTS incl. preparation and exam  
Module 2: 1 ECTS incl. preparation and exam

Summary: This course aims at teaching the basics of neuroimaging data science and requires NO prerequisites aside owning (and bringing) a laptop, i.e. everyone is welcome no matter the background.

Pre-requirements: None for the first module; the second module requires knowledge of the first data science module content

Program in 2020/21:
  * General course introduction: WED 16 SEPT 11AM-12PM
  * Module 1: Introduction to Data Science
    * Linux  
      - Part 1/3: FRI 25 SEPT 10AM-12PM  
      - Part 2/3: THU 01 OCT 10AM-12PM  
      - Part 3/3: TUE 06 OCT 10AM-12PM
    * Git  
      - Part 1/2: WED 14 OCT 10AM-12PM  
      - Part 2/2: MON 19 OCT 10AM-12PM
    * Python  
      - Part 1/4: WED 28 OCT 10AM-12PM  
      - Part 2/4: TUE 03 NOV 10AM-12PM  
      - Part 3/4: WED 11 NOV 10AM-12PM  
      - Part 4/4: WED 18 NOV 10AM-12PM
    * Intro to Machine Learning (with Python)  
      - Part 1/2: MON 23 NOV 10AM-12PM  
      - Part 2/2: WED 02 DEC 10AM-12PM
    * Full project example (including everything seen so far)  
      - FRI 11 DEC 10AM-12PM
  * Module 2: Introduction to Data Science applied to NeuroImaging
    * FAIR data  
      - WED 24 FEB 10AM-12PM
    * Preprocessing pipelines [MRI / EEG]  
      - WED 03 MAR 10AM-12PM
    * GLM analysis [MRI]  
      - WED 10 MAR 10AM-12PM
    * Machine Learning applied to fMRI task [MRI]  
      - WED 17 MAR 10AM-12PM
    * Machine learning applied to functional connectivity [MRI]  
      - WED 24 MAR 10AM-12PM
    * EEG-MRI project example AND/OR Course QCM  
      - WED 31 MAR 10AM-12PM
<table>
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<tr>
<th>Course materials</th>
<th>TBA</th>
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<tbody>
<tr>
<td>Location</td>
<td>Online</td>
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<tr>
<td>Evaluation</td>
<td>LNDS participants must be present in at least 80% of the course sessions to validate the ECTS. If you only attend individual lectures, please mark them on your <a href="#">LNDS seminar sheet</a>.</td>
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<td>Module 1 (Data Science): December 16th 2020, 10AM (To be confirmed) Module 2 (NeuroImaging): April 14th 2021, 10AM (To be confirmed)  - likely Multiple Choice exam for both -</td>
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<td>Registration</td>
<td>Please register until September 13th by filling the following <a href="#">form</a> &quot;</td>
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