

|          | Day 0 - Tue Apr 23 (tutorial day)<br>ESAC                        | Day 1 - Wed Apr 24<br>ESAC                                  | Day 2 - Hack Day - Thu Apr 25<br>ESAC | Day 3 - Fri Apr 26<br>ESAC                   |
|----------|--|---|---------------------------------------|--|
| 9:30 am  | Introductions to ESA & to dotAstronomy                           |   | Introduction to Hack Days             | Hack Presentations                           |
| 10:00 am | Intro to Foundation models for computer vision in Astronomy      | Keynote 1<br>Anca Angheloa                                  | Hack Pitches                          |  |
| 10:30 am | Intro to Data Visualisation in Astronomy with Plotly             |   |                                       |  |
| 11:00 am | Break (30 min)   |   | Break (30m)                           | Break (30m)                                  |
| 11:30 am | Intro to Large Language Models in Astronomy                      | Break (30m)   | Hacking                               | Keynote 4<br>Alexander Nolte                 |
| 12:00 pm | Intro to Sonification for Discovery, Education and Accessibility |   |                                       |  |
| 12:30 pm | Intro to Publishing Open Source Software                         | Keynote 3 Peter Coles                                       | Lunch (13:00)                         | Lunch (12:30)                                |
| 1:00 pm  | Intro to James Webb Space Telescope tools and proposal system    |   |                                       |  |
| 1:30 pm  | Lunch (13:30)  |   | Lunch (13:00)                         | Unconf A (1hr) Unconf B (1hr) Unconf C (1hr) |
| 2:00 pm  | Lunch (13:30)  |   |                                       |  |
| 2:30 pm  | Tour of ESAC   | Unconf A (1hr) Unconf B (1hr) Unconf C (1hr) Unconf D (1hr) | Hacking                               | Unconf A (1hr) Unconf B (1hr) Unconf C (1hr) |
| 3:00 pm  | Intro to ESASky  | Unconf A (1hr) Unconf B (1hr) Unconf C (1hr) Unconf D (1hr) |                                       |  |
| 3:30 pm  | Summary & Wrap-Up (end 16:00)                                    |   | Hacking                               | Summary & Wrap-Up (end 16:00)                |
| 4:00 pm  | Break (30m)  | Break (30m)   |                                       |  |
| 4:30 pm  | Intro to ESA Datalabs  | Unconf A (1hr) Unconf B (1hr) Unconf C (1hr) Unconf D (1hr) | Hacking                               |  |
| 5:00 pm  | Summary & Wrap-Up (end 18:00) <i>speed network - Emily</i>       | Summary & Wrap-Up (end 18:00)                               |                                       |  |
| 5:30 pm  |  |   |                                       |  |
| 6:00 pm  |  |   |                                       |  |
| 8:00 pm  |  | Conference Dinner in Madrid                                 |                                       |  |















**Day 3 - Hack Day - Wed Sep 11**  
ESAC

Introduction to Hack Days

Hack Pitches

*Break (30m)*

Hacking

*Lunch (13:00)*

Hacking

*Break (30m)*

Hacking

**Day 3 - Hack Day - Wed Sep 11**  
ESAC

Introduction to Hack Days

Hack Pitches

*Break (30m)*

Hacking

*Lunch (13:00)*

Hacking

*Break (30m)*

Hacking

**Day 3 - Hack Day - Wed Sep 11**  
ESAC

Introduction to Hack Days











|          | Day 0 - Tue Apr 23   | Day 1 - Wed Apr 24  | Day 2 - Hack Day - Thu Apr 25  | Day 3 - Fri Apr 26   |
|----------|--|---|--|--|
|          | ESAC   | ESAC  | ESAC   | ESAC   |
| 9:30 am  | D2: Introduction to ESAC   | Introduction to Unconference  | Introduction to Hack Days  | Hack Presentations   |
| 10:00 am | D2: Introduction to dotAstronomy   |   |  |  |
| 10:30 am | D1: Intro to Foundation models for computer vision in Astronomy – Mike Wolinsky<br>D2: Intro to James Webb Space Telescope tools and proposal system – Sarah Kendrew | Ainca Angheloa (ESA Earth Observation) Digital Innovation in Earth Observation: Transforming Science through Open Technology Platforms  | Hack Pitches   |  |
| 11:00 am | Break (30 min)   | Break (30m)   | Break (30m)  | Break (30m)  |
| 11:30 am | D1: Intro to Large Language Models in Astronomy – Jo Guza  | D2: Intro to Sonification for Discovery, Education and Accessibility – James Trayford   | Hacking  | Alexander Nolte (Eindhoven University of Technology) You hacked and now what? - Fostering the impact of hackathons   |
| 12:00 pm |  | Ivelina Momcheva (MPIA) What is astronomical data science anyways?  |  |  |
| 12:30 pm | D1: Intro to Data Visualisation in Astronomy with Plotly – Cameron Zhiguan   | D2: Intro to Publishing Open Source Software – Juanjo Bazan   |  | Lunch (12:15)  |
| 1:00 pm  |  | Peter Coles (Maynooth University) Open Access Publishing in Astrophysics  |  |  |
| 1:30 pm  | Lunch (13:30)  | Lunch (13:30)   | Lunch (13:30)  | D1 - Centralised database of information for all major missions/Astronomy data explorer tool. LOC: David O'Riyan<br>D2 - Outreach for today's youth. LOC: Nelly Gaillard<br>D52 - Light curve Visualisation tool. LOC: Landry Amiard<br>D50 - Creative code. LOC: Pablo Marcos |
| 2:00 pm  |  |   |  |  |
| 2:45 pm  | Tour of ESAC   | D1 - Repository of digital content (Agni Banerjee & James Dawson). LOC: Zoe   | D2 - Ethics in AI/ML (Coleman Krawczyk). LOC: Simone<br>D52 - Breaking the Wall between academia and the public (Shahrazad Mirzoltam). LOC: Lea<br>CAB Library - JDavis (Clare Shanahan). LOC: Pedro | D1 - Fair and Equitable networking in Astronomy. LOC: David O'Riyan<br>D2 - Hack Day debrief. LOC: Nelly Gaillard<br>D52 - Anomaly detection. LOC: Landry Amiard<br>D50 - The weird connection between physicists and bouldering. LOC: Pablo Marcos                            |
| 3:15 pm  | (D1+D2) Intro to ESA Sky Marcos Lopez Caniego, Deborah Baines, Elena Puga  | D1 - Astromusic (Jose Caballero). LOC: Zoe  | D2 - Tools for ADS to facilitate LLM development. LOC: Simone<br>D52 - Custom Data Trained Model (Sahil Jhawar). LOC: Lea<br>CAB library - What's next after twitter (Emily Hunt). LOC: Pedro        | Summary & Wrap-Up (end 16:00)  |
| 3:45 pm  |  |   |  |  |
| 4:15 pm  | Break (30m)  |   | Break (30m)  |  |
| 4:45 pm  | (D1+D2) Intro to ESA Datalabs Vicente Navarro, Jeronimo Bernad-Salas, Paolo di Mauro   |   |  |  |
| 5:15 pm  |  | D1 - Parallel Development in Astronomy (Zoe Faes). LOC: Landry<br>reality for Astronomy Outreach (Biagio Ambrustio). LOC: ...<br>D52 - How to make a better ML job in Astronomy? (Lea). LOC: Pablo G.<br>and presentations in Astronomy (David ...) | Hacking  |  |
| 5:45 pm  | Welcome drink  |   |  |  |
|          |  | Bus leaving at 18:15  |  |  |
| 8:00 pm  |  | Conference Dinner in Madrid (20:00)   |  |  |
| 8:00 pm  |  |   |  |  |