Human Brain Project

YOUNG RESEARCHERS EVENT

INTEGRATING NEUROSCIENCE DATA INTO MODELS AND SIMULATIONS

Campus Biotech, Geneva, Switzerland

12-13 September 2017

Project submission is closed.
Registration is closed.

https://education.
humanbrainproject.eu/web/
young-researchers-event-2017

Co-funded by
the European Union

For enquiries
contact:

education@humanbrainproject.eu

Human Brain Project

PROGRAMME
as of 28 August 2017

The 2nd Young Researchers Event (YRE) 2017 is hosted by the Human Brain Project (HBP) and organised by young researchers within the HBP. It will take place in Geneva on September 12-13 and is immediately followed by the in-depth CodeJam in Lausanne on September 13-15.

This year's theme is integrating neuroscience data into models and simulations. As a participant, you have the opportunity to learn about the Information & Communication Technology Infrastructure offered and developed by the HBP, and how to use it for your own research. You can also meet other researchers with similar interests, work in small groups and get support on your project from the HBP Platform experts.

The event is targeted towards young researchers (Master and PhD students as well as early postdocs) both from within and outside the HBP and will answer the following questions:

- I have obtained experimental data and want to include it in a simulation or compare simulated results using one of the HBP Platforms. Which one do I use? How can I use it?

- I have already started working with the HBP Platforms, but do not know how to continue. What are the next steps?

- I have not worked with the HBP Platforms yet, but wish to learn more about them.
  What can I do? How can I get started?

Several break-out sessions will be set up to address these questions by working with HBP Platform experts. Find more information about the break-out sessions here: **http://bit.ly/2rF7o6z**

If you want to get in touch with the organisers as well as potential participants before the event, or have any additional questions, please contact: **education@humanbrainproject.eu**

More information at:
https://education.humanbrainproject.eu/web/
young-researchers-event-2017

Combine the YRE & CodeJam!

HBP CodeJam Workshop #8

The goal of the CodeJam workshops is to **catalyse open-source, collaborative software development in computational and systems neuroscience and neuroinformatics**, by bringing together researchers, students and engineers to share ideas, present their work, and write code together.

The general format of the workshops is to dedicate the mornings to invited and contributed talks, leaving the afternoons free for discussions and code sprints.

The 8th HBP CodeJam will take place in Lausanne as a joint meeting with the Young Researchers Event, with the theme "Integrating neuroscience data into models and simulations". The first day of the CodeJam and the second day of the YRE are overlapping.

All participants of the YRE are invited to also participate in the CodeJam.

Further information at:
http://neuralensemble.org/meetings/CodeJam8/

TUESDAY, 12 SEPTEMBER 2017

08:00 - 09:00 **Registration**

09:00 - 09:15 **Welcome and introduction to the Young Researchers Event**
by Marc-Oliver Gewaltig, EPFL

09:15 - 11:00 **HBP Platform keynote talks (plenary)**
Learn about the HBP Platforms:

- **Getting the most from the HBP Collaboratory**
  by Jeff Muller, EPFL

- **Towards reproducible analysis workflows and the role of the Neuroinformatics Platform**
  by Sonja Grün, JUELICH

- **Data-driven modelling of a brain region using the Brain Simulation Platform**
  by Armando Romani, EPFL

- **Data access and management in the High Performance Analytics and Computing (HPAC) Platform**
  by Bernd Schuller, JUELICH

- **The Medical Informatics Platform: Computational disease modelling, data mining and machine learning, the new era of neuroscience**
  by Zsuzsanna Püspöki, CHUV

- **Neuromorphic Computing in the HBP: The SpiNNaker and BrainScaleS systems**
  by Petruț Bogdan, UMAN and Christian Pehle, UHEI

- **Neurorobotics Platform**
  by Marc-Oliver Gewaltig, EPFL

11:00 - 11:30 **Coffee break**

11:30 - 13:00 **Introduction and division into break-out sessions, part 1**
guided by HBP Platform developers

- **Project 1 - Neuroinformatics Platform,** guided by Michael von Papen, JUELICH

- **Project 2 - Brain Simulation Platform,** guided by Jean-Denis Courcol, EPFL

- **Project 3 - High Performance Analytics and Computing Platform,** guided by Lena Oden, JUELICH

- **Project 6 - Neurorobotics Platform,** guided by Axel von Arnim, Fortiss

- **Project 7 - NEST,** guided by Dennis Terhorst, JUELICH

For project descriptions and examples visit: http://bit.ly/2rF7o6z

13:00 - 14:00 **Lunch**

14:00 - 16:30 **Break-out sessions continued**

16:30 - 17:00 **Coffee break**

17:00 - 19:30 **Break-out sessions continued**

19:30 **Reception/get-together**
Continue collaboration in a nice atmosphere

WEDNESDAY, 13 SEPTEMBER 2017

9:00 - 10:30 **Break-out sessions, part 2**

- **Project 1 - Neuroinformatics Platform,** guided by Michael von Papen, JUELICH

- **Project 2 - Brain Simulation Platform,** guided by Jean-Denis Courcol, EPFL

- **Project 4 - Medical Informatics Platform,** guided by Mirco Nasuti, CHUV

- **Project 5 - Neuromorphic Computing Platform,** guided by Petruț Bogdan, UMAN

For project descriptions and examples visit: http://bit.ly/2rF7o6z

10:30 - 11:00 **Coffee break**

11:00 - 12:30 **Break-out sessions continued**

12:30 - 14:00 **Lunch**

14:00 - 16:30 **Break-out sessions continued**

16:30 - 17:00 **Coffee break**

17:00 - 18:30 **Wrap-up session and outcomes (plenary)**