

Introduction to "The Computational Biosciences Days"

Doctoral School for Health Sciences





Who am I?

- Master in Electrical Engineering and Ph.D. in Engineering
- Now FRS-FNRS Research Director & Prof. at School of Engineering
- Research and interest in "neuroimaging methods"
 - → data processing of brain images (MRI and PET) and electro-physiological data (M/EEG)
- Linked to:
 - GIGA CRC human imaging (research units) & GIGA in vivo imaging (platform)
 - Department of Electrical Engineering & Computer Science
- Contact: c.phillips@uliege.be



Who are you?

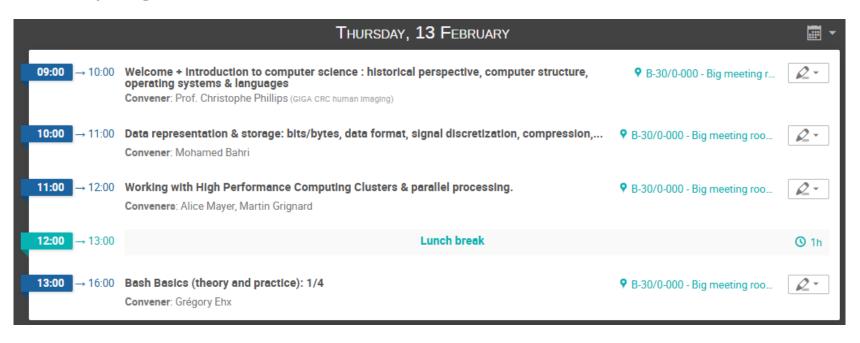
Background

Programming experience?

Course program



 Check https://indico.giga.uliege.be/event/570/ for the program and slides





	THURSDAY, 20 FEBRUARY	■ •
09:00 → 10:00	Introduction to algorithmic thinking: Different types of algorithms, computer logic Convener: Mohamed Bahri	♥ B34/+5-42 - Grande Ghuysen (
10:00 → 11:00	Good practices in scientific computing: Code modularity, validation, optimization, documentation Convener: Prof. Christophe Phillips (GIGA CRC human Imaging)	♥ B34/+5-42 - Grande Ghuysen (
11:00 → 12:00	ULIège IT resources by the SeGI/UDI's Convener: Yves Wesche	♥ B34/+5-42 - Grande Ghuysen (
12:00 → 13:00	Lunch break	③ 1h
13:00 → 16:00	Bash Basics (theory and practice): 2/4 Convener: Grégory Ehx	♥ B34/+5-42 - Grande Ghuysen (



	Thursday, 2	27 February	■ -
09:00 → 10:00	Introduction to AI Convener: Prof. Christophe Phillips (GIGA CRC human Imaging)		♥ B34/+5-42 - Grande Ghuysen (
10:00 → 11:00	Al demo and imaging data processing Convener: Alexandre Hego		♥ B34/+5-42 - Grande Ghuysen (
11:00 → 12:00	Introduction to NGS data processing Conveners: Alice Mayer, Arnaud Lavergne		♥ B34/+5-42 - Grande Ghuysen (
12:00 → 13:00		Lunch break	③ 1h
13:00 → 16:00	Bash Basics (theory and practice): 3/4 Convener: Grégory Ehx		♥ B34/+5-42 - Grande Ghuysen (



	Thursday, 6 March		-
09:00 → 10:00	Code versioning & Git, an introduction Convener: Prof. Christophe Phillips (GIGA CRC human Imaging)	♥ B-30/0-000 - Big meeting roo	2-
10:00 → 12:00	GitHub/Gitlab account hands-on check and explanations Conveners: Grégory Hammad, Martin Grignard	♥ B-30/0-000 - Big meeting roo	2-
12:00 → 13:00	Lunch break		O 1h
13:00 → 16:00	Bash Basics (theory and practice): 4/4 Convener: Grégory Ehx	♥ B-30/0-000 - Big meeting roo	2-
16:00 → 17:00	Closing comments Convener: Prof. Christophe Phillips (GIGA CRC human Imaging)	♥ B-30/0-000 - Big meeting roo	2-



Let's go!

