STAND INRIA

Journée Emploi Mathématiques et Interactions

Inria

National Research Institute in numerical sciences and technologies

▶ 10 regional centers
Bordeaux, Grenoble, Lille, Lyon, Nancy, Paris, Rennes, Sophia (Nice), Saclay

Inria

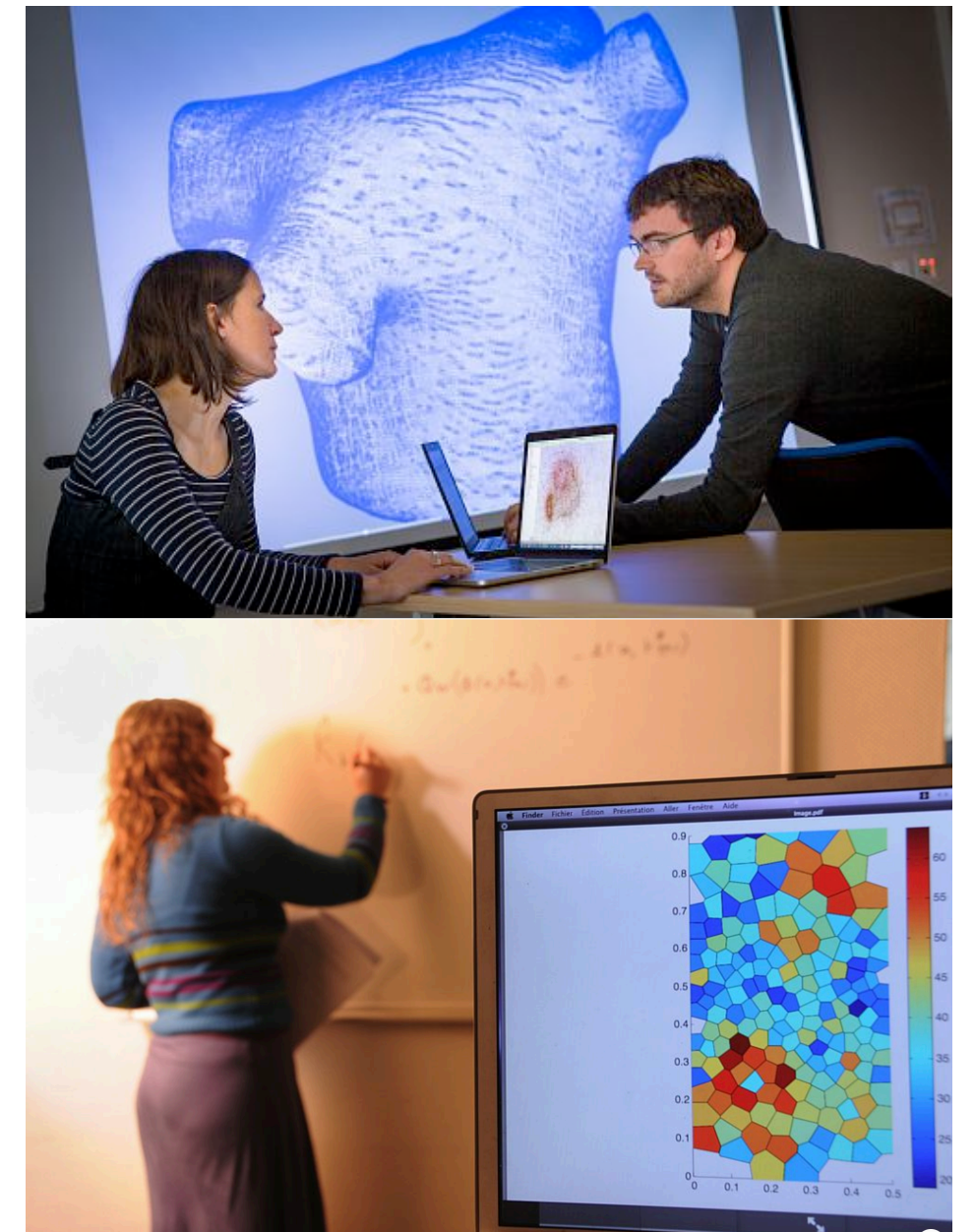## National Research Institute in numerical sciences and technologies

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Inria center of Bordeaux University (since 2008)

▶ 270 employees (180 scientists)   ▶ 21 project-teams

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Main research axes

▶ High Performance Computing and Big Data

▶ Automatic Learning - linked to Neurosciences and Cognitive Sciences

▶ Digital Health - Personalized Medicine

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Transversal themes

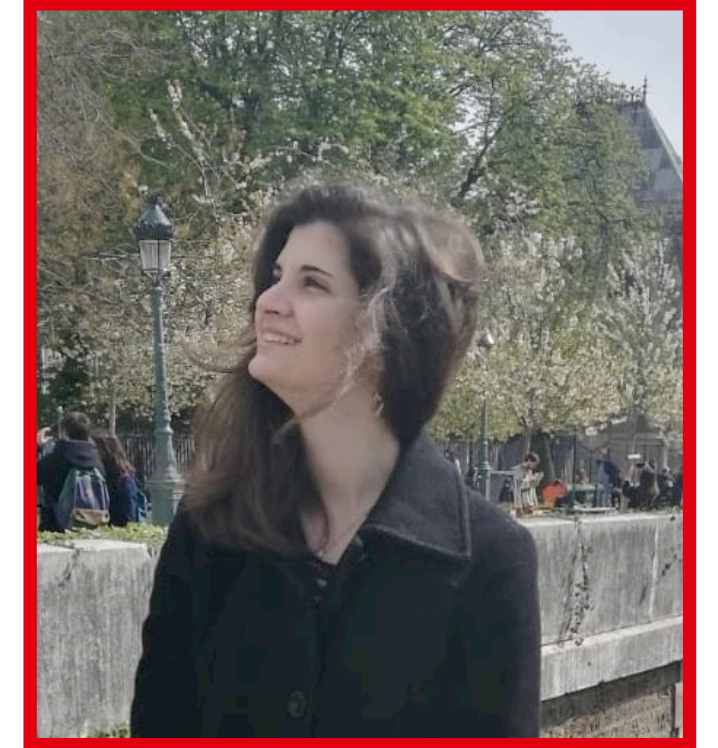▶ Societal challenges: climate, education, health

▶ Specific applications: energy, aeronautics, aerospace, defense

▶ Methodological approaches: experimental approach, interdisciplinarity
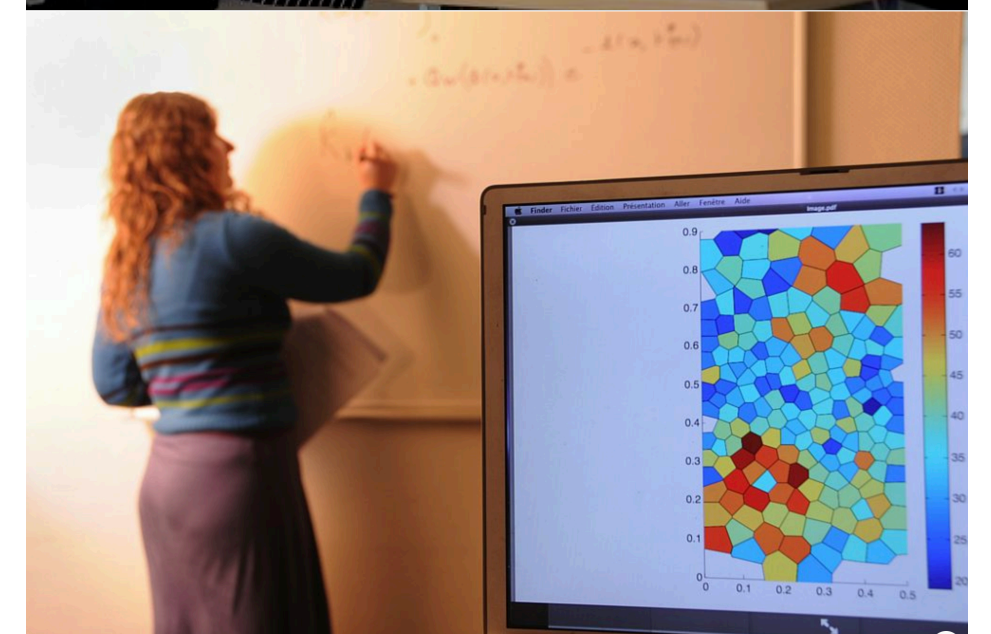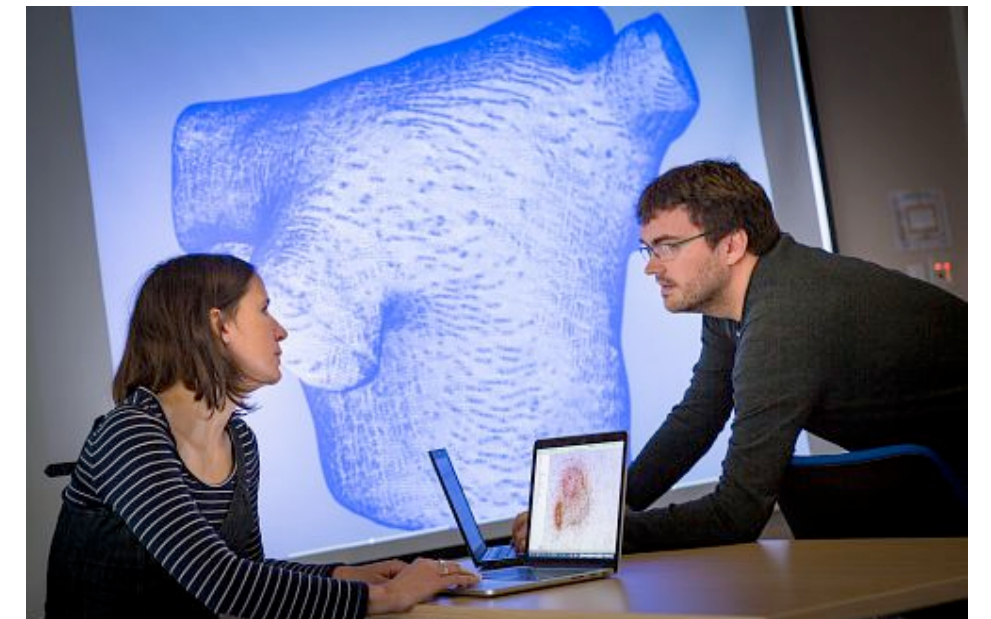
At the stand (1/2) : Alessia Del Grosso

▶ MEMPHIS team
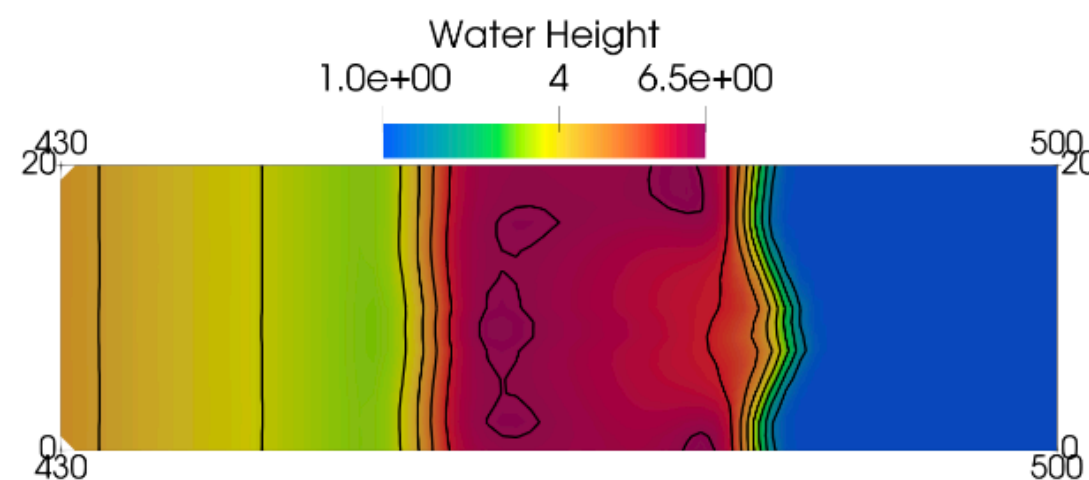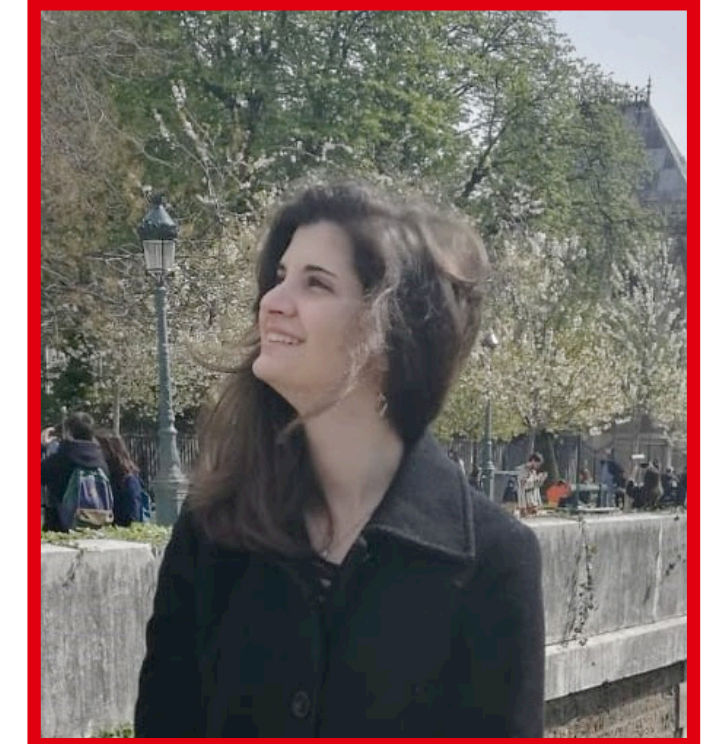
Modeling Enablers for Multi-PHysics and InteractionS
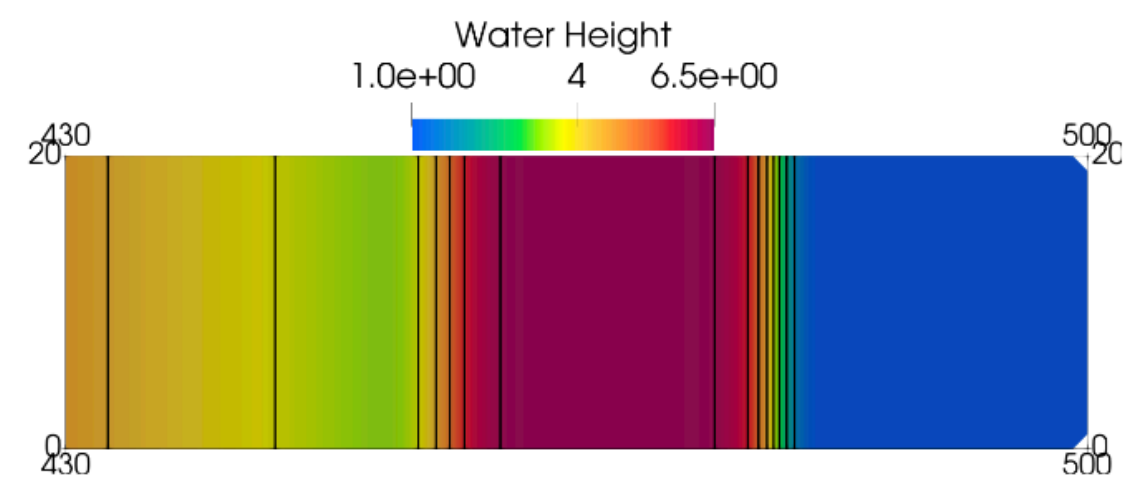
# At the stand (1/2) : Alessia Del Grosso

▶ MEMPHIS team

Modeling Enablers for Multi-PHysics and InteractionS

Research interests

▶ Numerical simulations of Partial Differential Equations (PDE)

▶ Finite volume schemes for hyperbolic PDE

▶ Model Order Reduction

(a) Two-point scheme

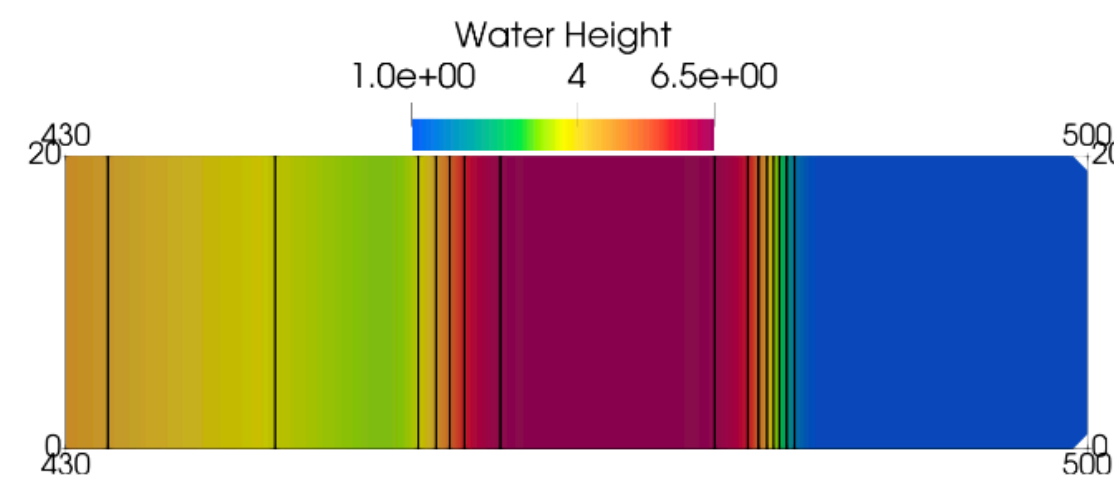(b) Multi-point scheme

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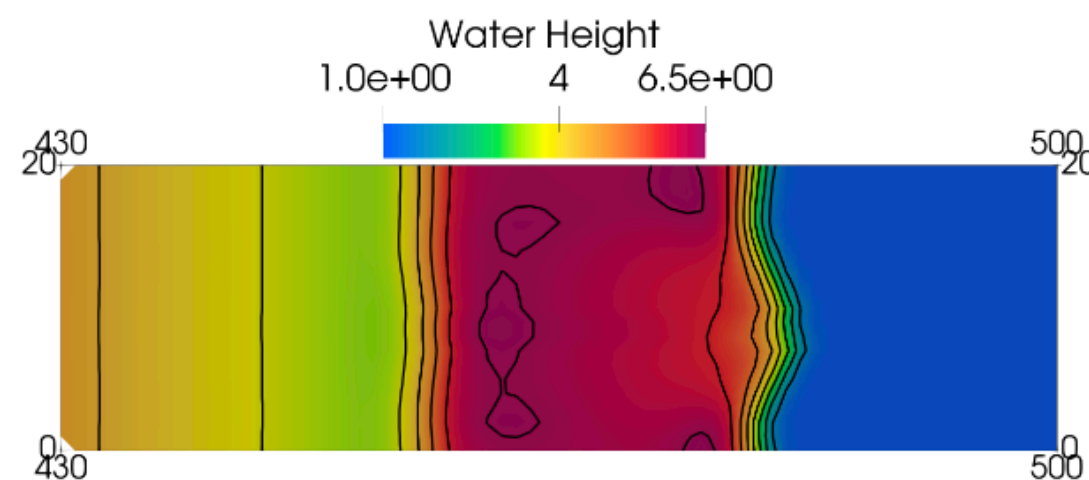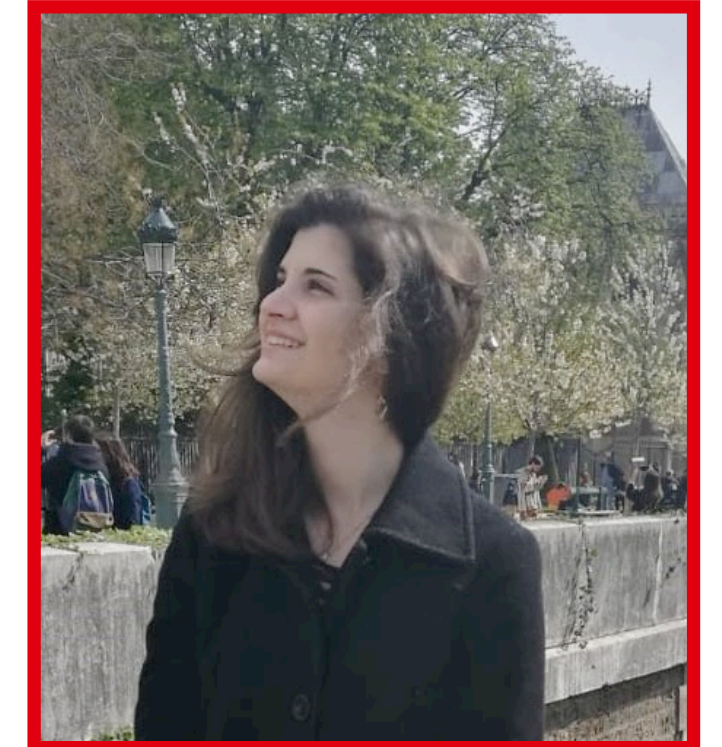
(a) Two-point scheme

(b) Multi-point scheme

Applications: fluid dynamics
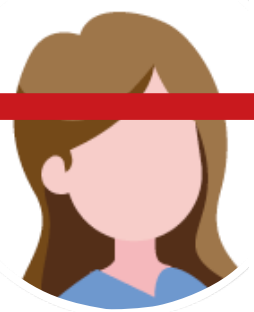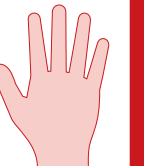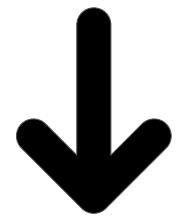
▶ Geophysical flows

▶ Aerodynamics

▶ Blood flows
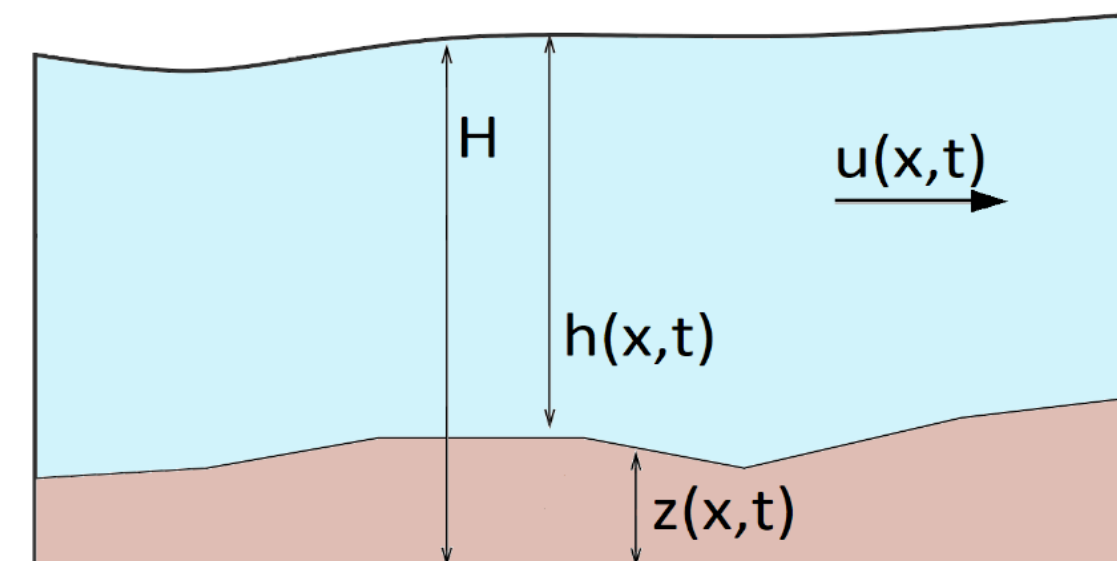
At the stand (2/2) : Christèle Etchegaray

▶ **M♁NC** team

Modeling in **ONC**ology

It's me
Talking

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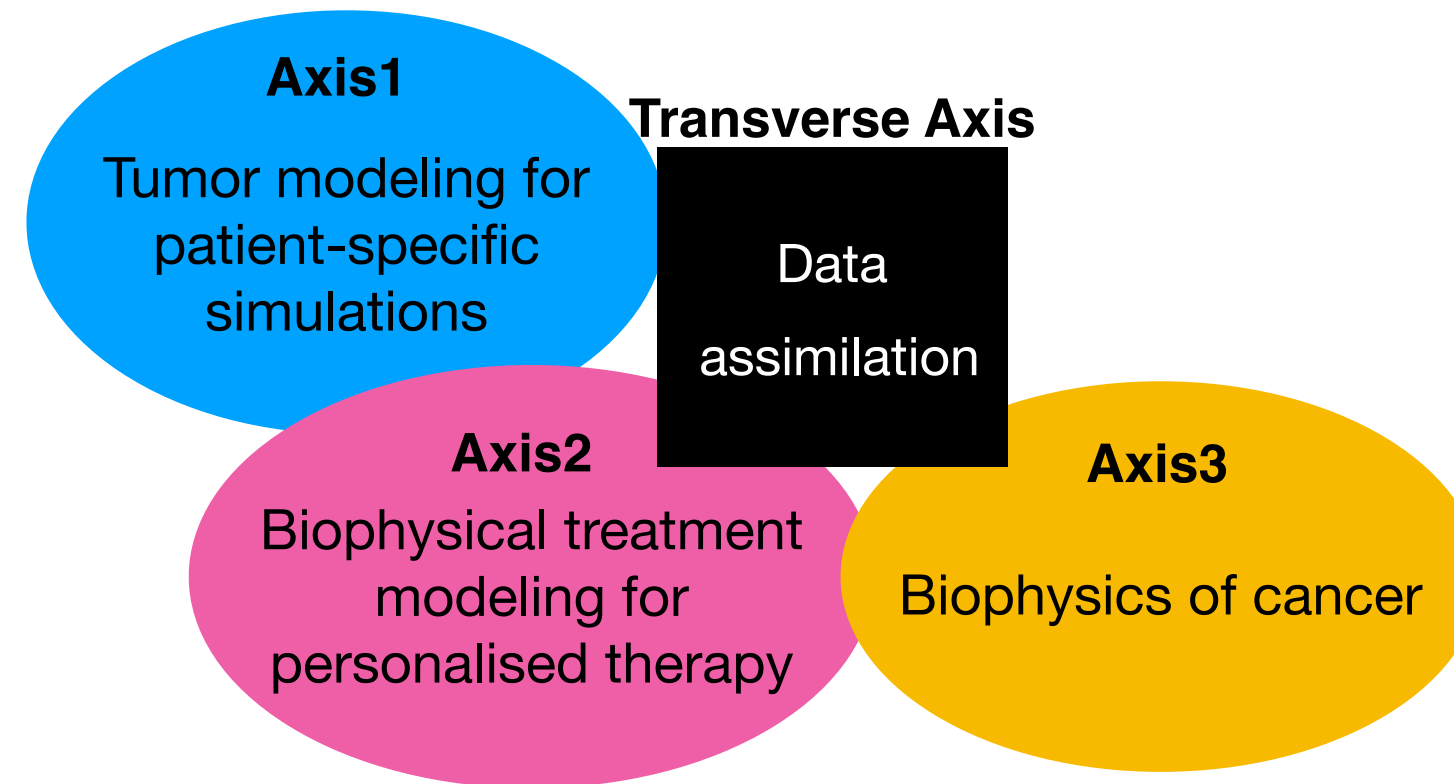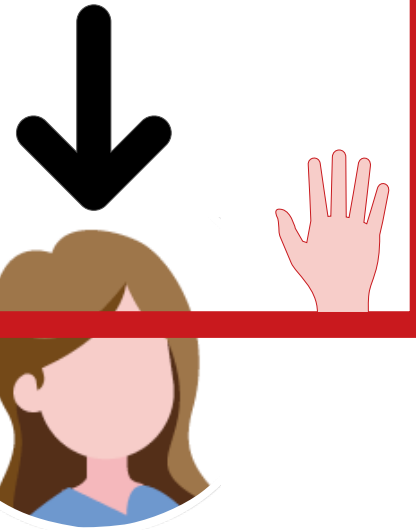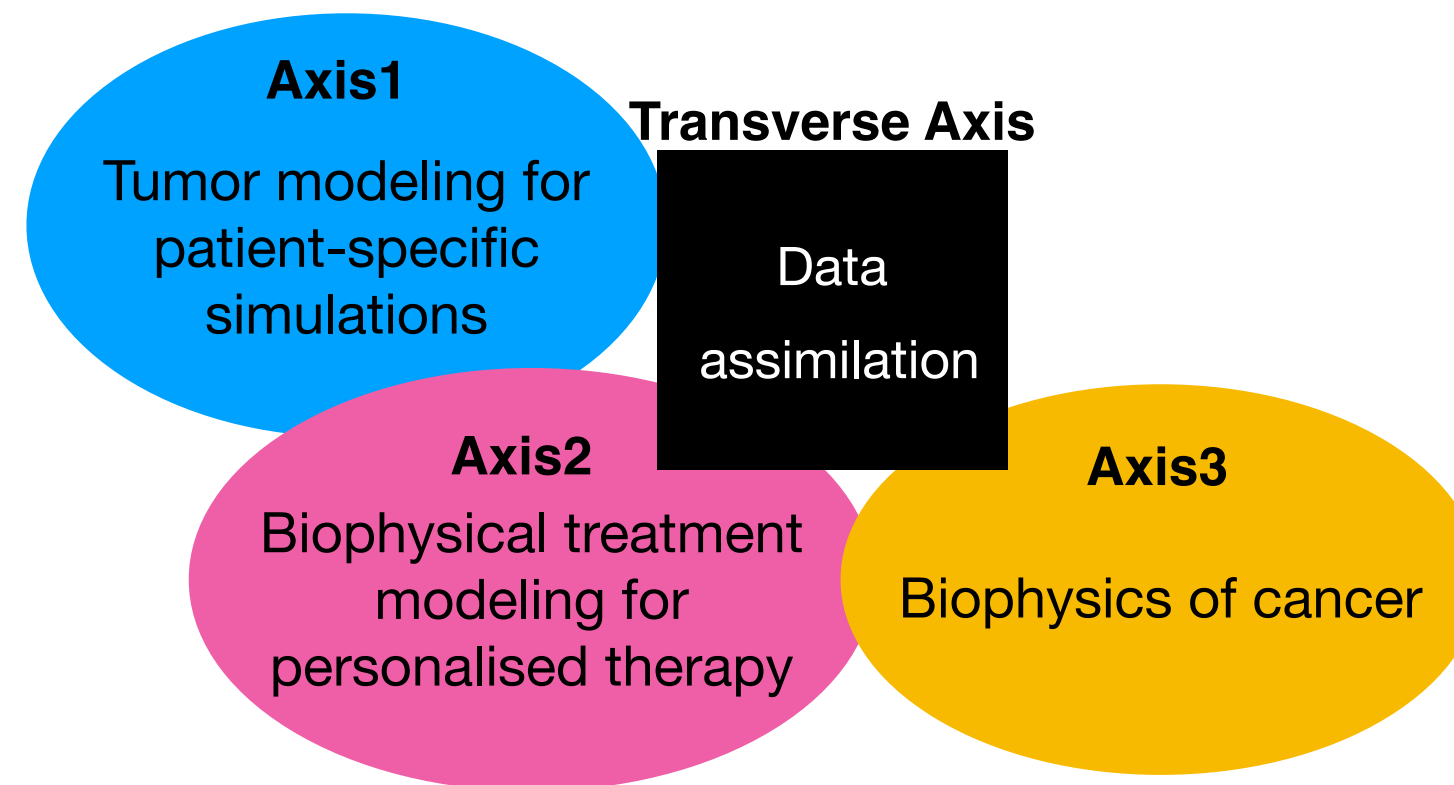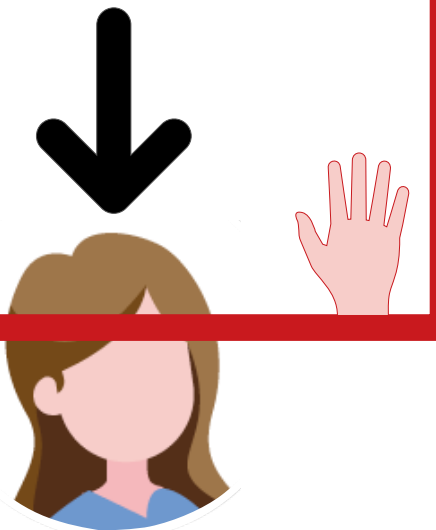
▸ **M**⚕️**NC** team

Modeling in **ONC**ology

Axis1

Tumor modeling for patient-specific simulations

Transverse Axis

Data assimilation

Axis2

Biophysical treatment modeling for personalised therapy

Axis3

Biophysics of cancer

It's me Talking

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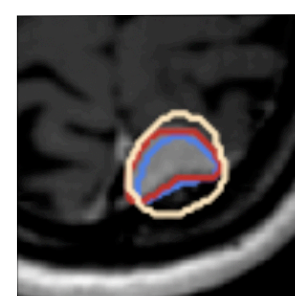**Axis3**

Biophysics of cancer
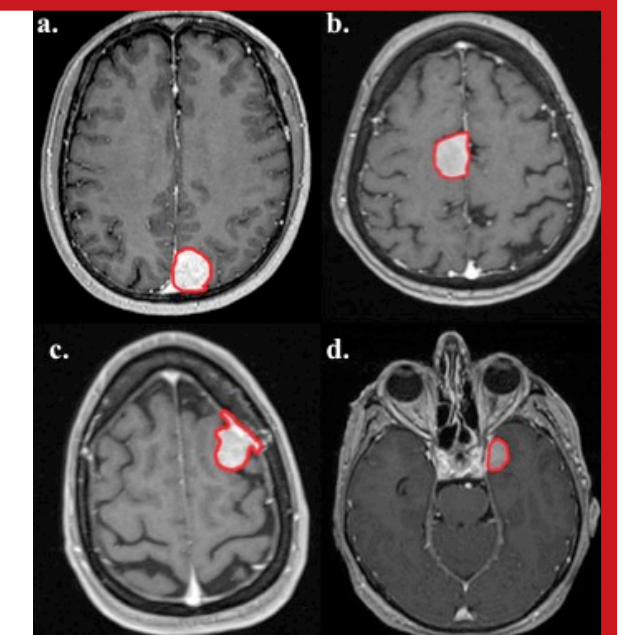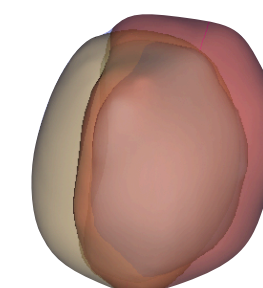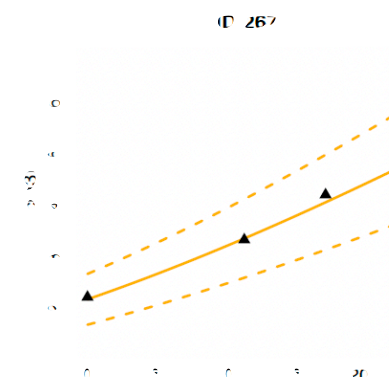
It's me Talking

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Internship project

▶ Mathematical Modeling of **meningioma growth** using Latent Equations

▶ Follow both volumes and imaging texture

▶ Combine Differential equations and Neural Networks
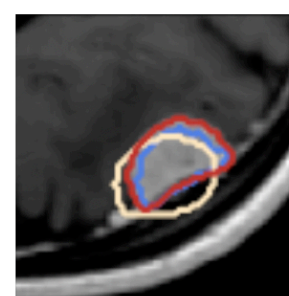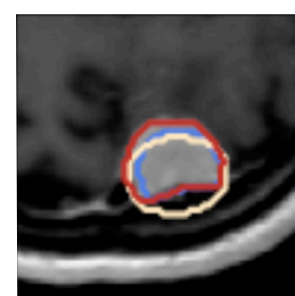
Previous Volume
Predicted Volume
True Volume

Merci.

Inria 5