

## Description

The **NUMERICS - H2020 MSCA COFUND** doctoral program focuses on numerical simulation and scientific computing. It offers **45 international scholarships** for PhD projects conducted in **CEA laboratories**, fostering research and knowledge transfer between universities, research institutes, and industries.

NUMERICS aims to strengthen **innovation** and the **competitiveness** of European industries in key sectors such as **energy, transport, health, and climate**. By training PhD students to the highest standards of excellence, it contributes to the emergence of a new generation of researchers ready to tackle Europe's societal challenges.

**Start date**  
1 October 2018

**End date**  
31 March 2025

## Fellows

### Recruitment process

The implementation of 4 Calls for application, led to the identification of the 50 suitable candidates out of which 45 integrated the programme. The recruited 45 NUMERICS fellows are 14 women (31 %) and 31 men (69%) from 26 different nationalities

Call	Selected PhD candidats
Call 1 (2018)	4
Call 2 (2019)	14
Call 3 (2020)	19
Call 4 (2021)	8
Total	45

Fig 1. Number of PhD students selected in 4 calls.

Numerics candidats

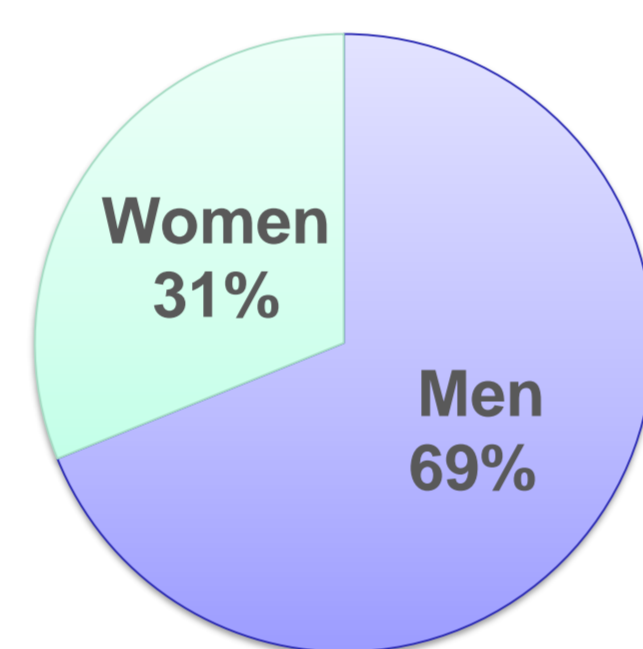


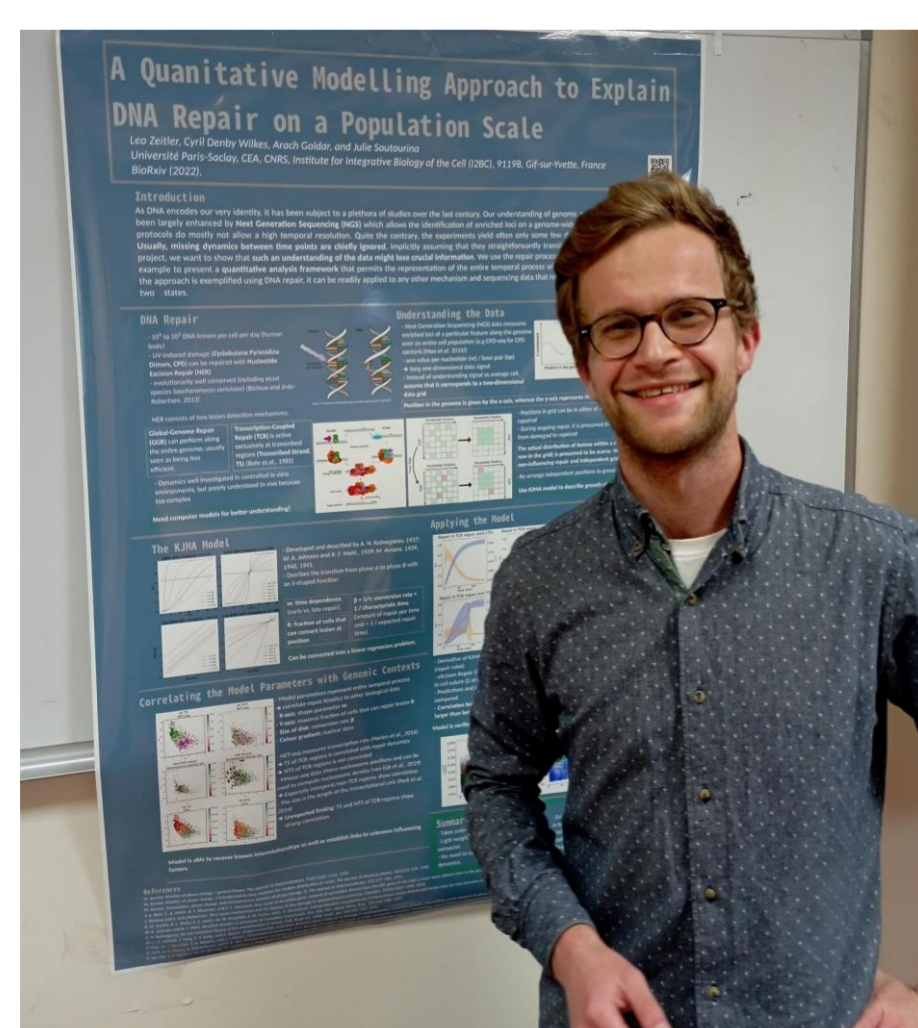
Fig 2. Distribution of the selected PhD students.

## Professional development

### Training & soft skills

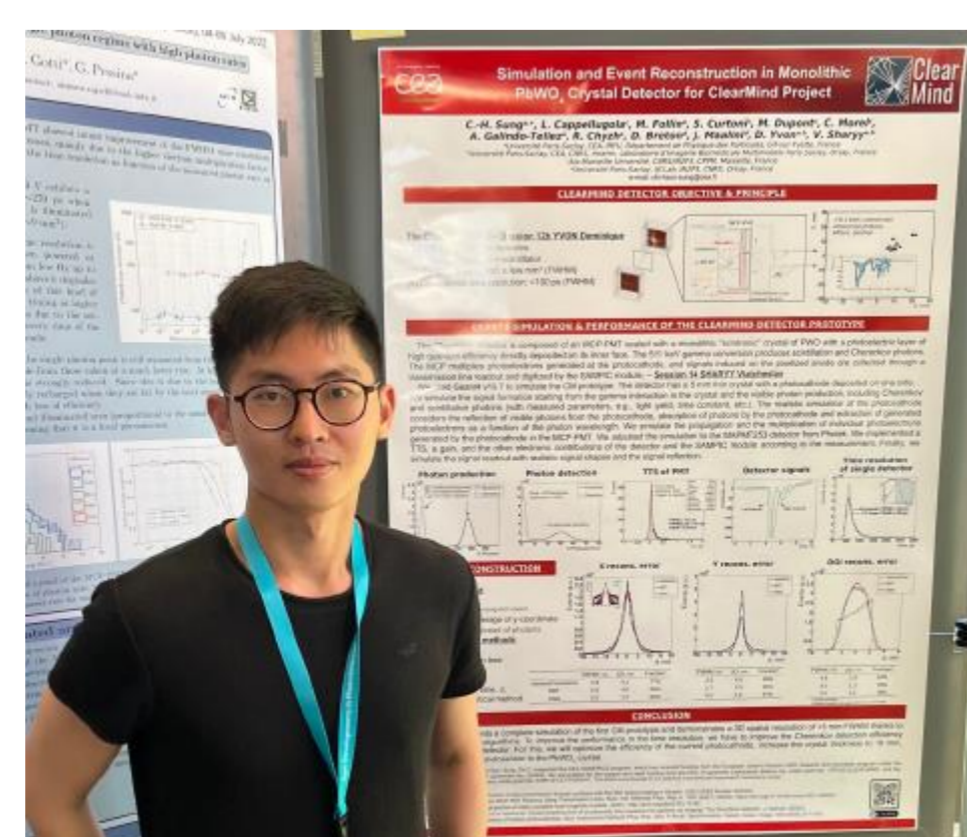
- Career guidance and soft skills trainings ("Build your thesis and your career plan"; "Leading a scientific and R&D project", "Writing your PhD thesis" and "Make a success of your professional project").
- Summer Schools on numerical analysis and informatics

### Coscinus, JobTeaser, Career Day, Enterprise Creation Day, FabLab, PACE program



Leo-Laurenz Zeitler.

Two NUMERICS fellows: **Leo-Laurenz Zeitler** and **Chi-Hsun Sung**, has been awarded by the CEA PhD student's mobility program aimed at supporting a short visit to an EU laboratory / research center to enhance their professional perspectives (CEA PACE, Pilot action for Cooperation in Europe)..



Chi-Hsun Sung.

## Results

### PhD Theses in numbers

NUMERICS PhD	Theses
PhD successfully defended	41
Before final defence	2
End of the contract without PhD	2



Chaithya Giliyar Radhakrishna



Polina Simkina

### PhD research domains

Numerics PhD Theses Research Domains

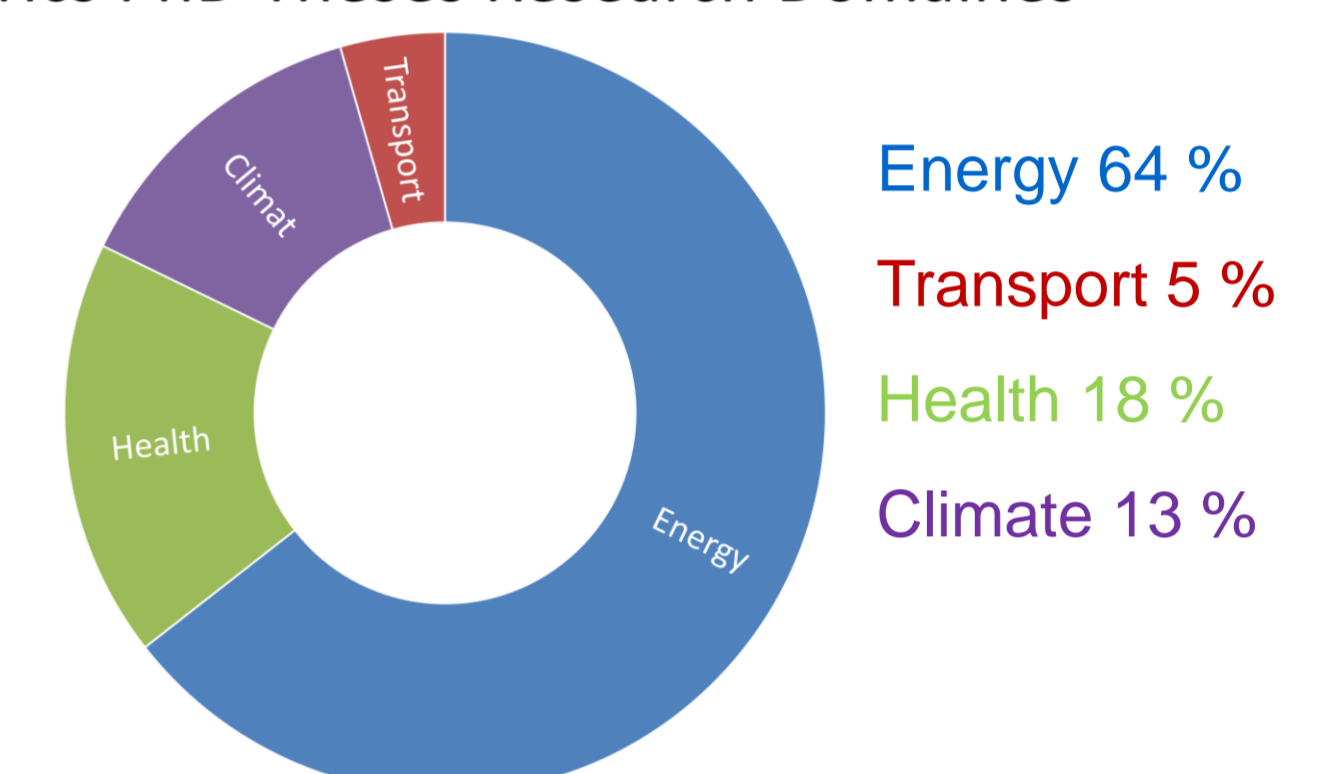


Fig 3. Numerics PhD Theses domains: energy 29, transport 2, health 8, climate 6

### NUMERICS outcomes

- Publications : 145
- Conferences : 150
- Patents: 12
- Software: 2

## Highlights

### Awards

- BEETL Benchmark for EEG Transfer Learning NeurIPS (Neural Information Processing System), 2021 Competition, 3rd place award for **Maciej Śliwowski**
- PPC/EPS/IUPAP Student Poster Prize, 2021, for **Paula Kleij** at the 47th EPS Plasma Physics conference
- 2024 thesis prize of CODEGEPRASFGP Sud-Est for **Simone Braccio**.



Simone Braccio (on left ),

## NUMERICS and what next ?

Professional situation	number
Permanent contract	15
Fixed-term contract	1
post-doc	17
other	4
OPEN to WORK	8

