

2nd UPC ICT PhD Day



WEDNESDAY JUNE 12TH, 2024

Aula Màster + Sala Polivalent

A3 building, Campus Nord UPC

C. Jordi Girona, 1-3, 08034 Barcelona

(*) PhD Programs in Information and Communications Technologies:

Artificial Intelligence,
Bioinformatics,
Computer Architecture,
Computing,

Electronic Engineering,
Network Engineering,
Signal Theory and
Communications.

Free entrance for UPC members (subject to capacity limitations)

No pre-registration required

Contact: andujar@cs.upc.edu



UPC DOCTORAL
SCHOOL



UNIVERSITAT POLITÈCNICA
DE CATALUNYA
BARCELONATECH

Welcome**11:00 – 11:15****Josep M^a Font***Director of the Doctoral School***Carlos Andújar***Coordinator of the PhD in Computing***Round table: Continuing the Journey:
Transitioning from Master's to PhD Studies****11:15 – 11:35****Josep M^a Font***Director of the Doctoral School***Jordi Saludes***Vice-dean at the School of Mathematics and Statistics (FME)***Oscar Romero***Vice-dean for Postgraduate Studies,
Barcelona School of Informatics (FIB)***Oscar Casas***Coordinator of the PhD Program in Electronic Engineering***Marcos Postigo-Boix***Director of Studies for the Master's in
Telecommunication. School of Tel. Eng.***Session block 1 - Practical information for PhD students****Phedra: the new application for PhD studies****11:35 – 11:50****Carlos Andújar***Coordinator of the PhD Program in
Computing***Ana Canales***Head of the Support Service Unit to the
Doctoral School***The Data Management Plan (DMP)****11:50 – 12:10****Ruth Iñigo***Librarian in Charge of Services, Biblioteca UPC***Communicating scientific results****12:10 – 12:30****Núria Saladié***Master in Science Communication, Universitat Pompeu Fabra***After the PhD: Work opportunities****12:30 – 12:50****Ana Canales***Head of the Support Service Unit of the Doctoral School*

Session block 2 - Keynote (ex-alumnus)

The value of a PhD in Academia and Industry

12:50 – 13:10

Josep Carmona

Founder and CEO of ProcessTalks

Session block 3 - Student round table & presentations

Roundtable: Collaborative
Strategies for PhD Success

12:50 – 13:10

César Augusto Palacios Arias

Ph.D student, Signal Theory and Comm.

Luis Carranza

PhD student, Computing

Beatriz Martinez

PhD student, Computing

Marta Casanellas

Coord. of the PhD Program in Bioinformatics

Short presentations (6' + 2')

13:30 – 14:10

Session chair: **Davide Careglio**, Coordinator of
the PhD Program in Computer Architecture

- Analyzing Electromagnetic Interference Effects in Critical Healthcare Equipment and Environments (**Prashanth Domakonda**)
- Photonic mixing techniques for mmWave generation (**Rodrigo Otoniel Mendez**)
- Network slicing in 6G (**Navideh Ghafouri Jeshvaghani**)
- How to improve vector architectures' efficiency (**Julian Pavón**)
- Time-Predictable Task-to-Thread Mapping in Multi-Core Processors (**Mohammad Samadi**)

Closing

14:10 – 14:15

Snack and poster session (Sala Polivalent)

14:15 – 15:00

- Innovative centralized multiradio architecture to enhance energy efficiency in IoT (**Roger Sanchez**)
- Exploring the Biophysical Boundaries of Protein Families with Deep Learning Methods (**Miriam Poley**)
- RRAM model improvements (**Vahab Mahboubi**)
- Asymptotic Analysis of Near-Field Coupling in Massive MISO and Massive SIMO Systems (**Aniol Martí**)
- Investigating B-Cell Development and Malignant Transformations in B-cell acute lymphoblastic leukemia (B-ALL) (**Anna Costa**)
- Semi-Supervised Dual-Manifold Regularized Fuzzy Broad Learning for ICU Admission Prediction in Post-COVID Transplant Recipients (**Xiao Zhang**)
- Machine Learning Approaches for the Characterization of COPD (**Iria Pose**)
- Quadratic Detection in Noncoherent Massive SIMO Systems over Correlated Channels (**Marc Vilà**)
- Assessing Job Wrapping as a Strategy for Workflow Optimization on Shared HPC Platforms (**Manuel Giménez de Castro**)