



Noelia Pérez Palma

Curriculum Vitae

Education

- 2018 – 2022 **PhD in Telematic Engineering**, *University Carlos III of Madrid*, Spain.
- 2016 – 2017 **Master in Telematic Engineering**, *University Carlos III of Madrid*, Spain.
- 2011 – 2012 **Three semesters in Computer Science as exchange student with ERASMUS Program**, *Norwegian University of Science and Technology (NTNU)*, Trondheim, Norway.
- 2008 – 2014 **Bachelor degree in Computer Science and Engineering**, *University of Murcia*, Spain.

Masters Thesis

- Title *On the persistence of wireless advertising without infrastructure support.*
- Supervisors Professor Vincezo Mancuso & Professor Marco Ajmone.
- Description This thesis studies and presents experiments on the possibility of providing content availability to end user terminals by exploiting D2D infrastructureless connectivity and opportunistic communication.

PhD Thesis

- Title *Infrastructure-less D2D Communications through Opportunistic Networks.*
- Supervisors Professor Vincezo Mancuso & Professor Marco Ajmone.
- Description In this dissertation I look at opportunistic D2D networking, possibly operating in an infrastructure-less environment, and I investigate several schemes through modeling and simulation, deriving metrics that characterize their performance. In particular, I consider variations of the Floating Content (FC) paradigm, that was previously proposed in the technical literature.

Experience

- April 2021 – **Research Engineer**, DEPARTMENT OF INFORMATION AND COMMUNICATIONS
November 2021 ENGINEERING AT COMPUTER SCIENCES FACULTY, UNIVERSITY OF MURCIA, Spain.
 - Wireless communications.
 - Energy efficient networks.
 - Edge computing.
 - Trustworthiness for 5G architectures.
- January 2016 **Research Engineer**, IMDEA NETWORKS, Leganés Madrid, Spain.
– February 2021
 - D2D communications.
 - Opportunistic networks.
 - Wireless communications.
 - Context-aware mechanisms.
 - Energy efficient networks.
 - Edge computing.
- May 2019 – **Visiting Scholar**, CCS LABS, PADERBORN UNIVERSITY, Paderborn, Germany.
November 2019
 - D2D Opportunistic pedestrian communications.
 - V2V communications through microclouds.
- July 2015 – **Allocation and Supply, Land line Business**, TELEFÓNICA DE ESPAÑA, Madrid,
January 2016 Spain.
 - Project manager for network creation and optimization projects.
- August 2014 – **Mobile Commercial Systems Development**, TELEFÓNICA DE ESPAÑA, Madrid,
July 2015 Spain.
 - Test Analyst for mobile systems and on line channels development projects.
- December 2013 – **Talentum Startups Internship Telefónica**, IMDEA NETWORKS, Leganés
July 2014 Madrid, Spain.
 - Researcher in a project involving reduction power consumption with heuristic algorithms for electronics use planning.
 - Household Energy Demand Model, Renewable Energy Management, Distributed Generation and Optimization Algorithms.
 - Development environments: Eclipse (Java).
- January – **Web developer**, XEPIENT SOLUTIONS, Murcia, Spain.
May 2013
 - Applications Developer.
 - Development environments: Eclipse (Java), Visual Studio (MVC, C#, HTML, CSS, Javascript).

Research Projects

- HyperAdapt** Modeling and Online Performance Optimization of Adaptive Networks, *TEC2014-55713-R*, 01/01/2015 – 30/06/2017, 30 months.
- TIGRE5-CM** Integrated technologies for management and operation of 5G networks, *S2013/ICE-2919*, 01/10/2014 - 30/09/2018, 48 months.
- DiSCoEdge** Distributed storage and computing on the edge (of the network), *TIN2017-88749-R*, 01/10/2018 – 30/06/2020, 30 months
- TAPIR-CM** Advanced techniques to enhance the intelligence of 5G networks, *P2018/TCS-4496*, 01/01/2019 - 31/12/2022, 51 months.
- WATERMED 4.0** Efficient use and management of conventional and non-conventional water resources through smart technologies applied to improve the quality and safety of Mediterranean agriculture in semi-arid areas, 2019.
- CERBERUS** Dynamic security and liability in distributed Virtualized Networks, 36 months, 2022.
- HEXA-X-II** A holistic flagship towards the 6G network platform and system, to inspire digital transformation, for the world to act together in meeting needs in society and ecosystems with novel 6G services, 30 months, 2023.

Teaching

- 2021 - 2022 **Advanced Telecommunication Services**, Bachelor's Degree in Computer Engineering from the University of Murcia.
- 2022 - 2024 **Mobile Computing**, Bachelor's Degree in Computer Engineering from the University of Murcia.
- 2022 - 2024 **Fundamentals of Networks and Architectures**, Bachelor's Degree in Telecommunications Technologies and Services Engineering from the Universitat Oberta de Catalunya.
- 2022 - 2024 **Network Control and Management**, Bachelor's Degree in Telecommunications Technologies and Services Engineering from the Universitat Oberta de Catalunya.
- 2021 - present **Network Architecture**, Bachelor's Degree in Computer Engineering from the University of Murcia.
- 2022 - present **Specific Technologies in Computer Engineering**, Bachelor's Degree in Computer Engineering from the University of Murcia.
- 2024 - present **Professional Skills in Computer Engineering**, Bachelor's Degree in Computer Engineering from the University of Murcia.
- 2024 - present **Ethical Hacking**, Master in CyberSecurity from the University of Murcia.

Travel grants and scholarships

- 2013 - 2014 Talentum Startups Scholarship Telefónica.
- 2014 - 2015 Talentum Universities Scholarship Telefónica.
- July 2017 NOTRE Summer School at Cyprus University of Technology.
- 2017 -2018 Google Developer Challenge Scholarship: Android Dev.

- 2018 Bertelsmann Data Science Challenge Scholarship Course.
- August 2018 SIGCOMM 2018 Travel Grant.
- 2018-2019 PyTorch Scholarship Challenge.

Communication Skills and Volunteering Work

- February 2018 Poster presentation at EWSN 2018 - International Conference on Embedded Wireless Systems and Networks in Leganés, Madrid.
- June 2018 Poster presentation at the 9TH IMDEA Networks Annual international workshop in Leganés, Madrid.
- June 2018 Paper Presentation at the 19TH IEEE International symposium on a world of wireless, mobile and multimedia networks (WOWMOM 2018) in Chania, Crete.
- August 2018 Volunteer at IMDEA Science Week Event in Leganés, Madrid.
- November 2018 Organization Committee volunteer at SIGCOMM 2018 Conference in Budapest, Hungary.
- August 2020 Paper Presentation at the 21TH IEEE International symposium on a world of wireless, mobile and multimedia networks (WOWMOM 2020). Virtual conference.

Courses

- 2015 Android Programming Fundamentals, *KeepCoding*.
- 2015 Initiation to Git, Github & SourceTree, *KeepCoding*.
- 2017 Social Computing in the Big Data Era, *NOTRE, Summer School, Cyprus University of Technology*.
- 2018 Pitch your Project Effectively, *uc3m*.
- 2018 Dissertation Writing Skills in English, *uc3m*.
- 2018 Google Developer Challenge Scholarship: Android Dev, *Udacity*.
- 2018 Bertelsmann Data Science Challenge Scholarship Course, *Udacity*.
- 2018-2019 PyTorch Scholarship Challenge, *Udacity*.
- 2018-2019 Zero to Deep Learning with Python and Keras, *Udemy*.
- 2020 Machine Learning: A Computational Intelligence Approach MLCI 2020 (8th edition), *PhD-Summer Course - Jun 1-5 University of Genoa, Italy*.
- 2022 Curso de Peritaje Informático, *May 18-31 Colegio de Ingenieros Informáticos de la Región de Murcia, Spain*.
- 2022 Emprendimiento Orientado a la Creación de Empresas: Herramientas para el desarrollo de ideas innovadoras, *Centro de Formación y Desarrollo Profesional (CFDP) - May 18-31 University of Murcia, Spain*.