

Pablo Jiménez Mateo

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RESEARCH EXPERIENCE

IMDEA Networks Institute

September 2017 - Present

Research Assistant

Network management and control for mmWave communications.

Universitat Jaume I

May 2016 - July 2016

Research Assistant

Design and development of a distributed system using agents for traffic analysis in real time.

Universitat Jaume I

March 2015 - July 2015

Research Assistant

Design and development of a self-organized system for emergency management traffic accesses.

Universitat Jaume I

October 2014 - January 2015

Research Assistant

Generation of georeferenced alerts based on the study of the interaction of users in social networks.

Continuum Analytics

February 2014 - July 2014

Engineering internship

Data compression using linear codes.

ACADEMIC EXPERIENCE

Universidad Carlos III de Madrid

September 2018 - December 2018

Venia docendi

Teaching Access networks and shared media.

Universidad Carlos III de Madrid

September 2018 - December 2018

Bachelor thesis supervisor

Interactive visualization of multifrequency coverage using virtual reality.

EDUCATION

Universidad Carlos III de Madrid

September 2016 - November 2020

Ph.D. (4-year degree) in Telematics Engineering, September 2020 (expected).

M.Sc. (1-year degree) in Telematics Engineering, September 2017.

Universitat Jaume I

September 2009 - November 2016

M.Sc. (1-year degree) in Intelligent Systems, November 2016.

B.S. (4-year degree) in Computer Engineering, specialty in Information Technologies, July 2015.

B.S. (4-year degree) in Computational Mathematics with intensification in Mathematics, July 2014.

Postgraduate Course in applied computer security: attack and defense, 2012.

LANGUAGES AND TECHNOLOGIES

Computer Languages

Python, MATLAB, Java, C/C++, R, SQL.

Software & Tools

MATLAB, NS-3, WinProp, L^AT_EX, GIT, Linux, Mininet.

Languages

English (CAE Grade A), Spanish (Native), Catalan (Native).

PUBLICATIONS

- [1] Jiménez Mateo, Pablo and Blanco, Alejandro and Ludant, Norbert and Marugan Borelli, Matteo and García-García, Amanda and Loch, Adrian and Shi, Zhenyu and Wang, Yi and Widmer, Joerg *A Comprehensive Study of Low Frequency and High Frequency Channel Correlation*. International Conference on Computing, Networking and Communications (ICNC 2019), 18-21 February 2019 , Honolulu, Hawaii, USA.
- [2] Andrés Ramiro, Carlos and Fiandrino, Claudio and Blanco, Alejandro and Jiménez Mateo, Pablo and Ludant, Norbert and Widmer, Joerg *OpenLEON: An End-to-End Emulator from the Edge Data Center to the Mobile Users*. Proceedings of the 12th International Workshop on Wireless Network Testbeds, Experimental Evaluation & Characterization - WiNTECH 18, 2018, doi:10.1145/3267204.3267210.
- [3] Vicente Ramón Tomás López, Luis Amable García Fernández, José F. García Calderaro, Pablo Jiménez Mateo *Diseño y desarrollo de un sistema auto-organizado para la gestión de emergencias de tráfico en los accesos a Castellón de la Plana*. Autoria. Científic, 2016. ISBN 9788460889878. Castellón (Espanya). Ed. Fundación Dávalos-Fletcher.

PROJECTS

- Técnicas Avanzadas para Potenciar la Inteligencia de las Redes 5G (TAPIR-CM)** 2019-2022
Reference: P2018/TCS-4496
Main researcher: Domenico Giustiniano
Financing entity: Comunidad de Madrid
- SEARCHLIGHT: A new communication paradigm for future very high speed** 2017-2019
Reference: ERC CoG 617721
Main researcher: Joerg Widmer
Financing entity: European Research Council
- Tecnologías Integradas de gestión y operación de Red 5G (TIGRE5-CM)** 2017-2018
Reference: S2013/ICE-2919
Main researcher: Joerg Widmer
Financing entity: Comunidad de Madrid
- LF assists HF in beam tracking and mobility** 2017-2018
Reference: Huawei HF2016120010
Main researcher: Joerg Widmer
Financing entity: Huawei Technologies (China)