Pablo Jiménez Mateo

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RESEARCH EXPERIENCE

IMDEA Networks Institute — September 2017 - Present
Research Assistant
Network management and control for mmWave communications.
Supervisor: Joerg Widmer.

University of Washington — March 2019 - June 2019
PhD internship
Improving device discovery for 802.11ad and 802.11ay.
Supervisor: Sumit Roy.

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 access.

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.

TEACHING EXPERIENCE

Universidad Carlos III de Madrid — September 2019 - December 2019
Venia docendi
Teaching Access networks and shared media.

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.

- Erasmus program in Oulu University, Finland. 2011-2012, 9 months.

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

LANGUAGES AND TECHNOLOGIES

Computer Languages	Python, MATLAB, Java, C/C++, R, SQL, Assembly.
Software & Tools	Keras, MATLAB, NS-3, WinProp, LaTeX, GIT, Linux, Mininet.
Languages	English (CAE Grade A), Spanish (Native), Catalan (Native).

PUBLICATIONS

[1] Omar Lacruz, Jesús and Garcia, Dolores and Jiménez Mateo, Pablo and Palacios, Joan and Widmer, Joerg *High-Speed Millimeter-Wave Mobile Experimentation on Software-Defined Radios*. GetMobile: Mobile Computing and Communications (GetMobile 2021).

[2] Omar Lacruz, Jesús and Garcia, Dolores and Jiménez Mateo, Pablo and Palacios, Joan and Widmer, Joerg *mm-FLEX: An Open Platform for Millimeter-Wave Mobile Full-Bandwidth Experimentation*. ACM International Conference on Mobile Systems, Applications, and Services (ACM MobiSys 2020).

[3] Garcia, Dolores and Omar Lacruz, Jesús and Jiménez Mateo, Pablo and Widmer, Joerg *POLAR: Passive object localization with IEEE 802.11ad using phased antenna arrays*. IEEE International Conference on Computer Communications (IEEE INFOCOM 2020).

[4] Fiandrino, Claudio and Blanco, Alejandro and Jiménez Mateo, Pablo and Andrés Ramiro, Carlos and Ludant, Norbert and Widmer, Joerg *openLEON: An end-to-end emulator from the edge data center to the mobile user*. Computer Communications, 2019.

[5] Blanco, Alejandro and Ludant, Norbert and Jiménez Mateo, Pablo and Shi, Zhenyu and Wang, Yi and Widmer Joerg *Performance Evaluation of Single Base Station ToA-AoA Localization in an LTE Testbed*. IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (IEEE PIMRC 2019).

[6] Jiménez Mateo, Pablo and Fiandrino, Claudio and Widmer Joerg *Analysis of TCP Performance in 5G mm-wave Mobile Networks*. IEEE International Conference on Communications (ICC 2019), 20-24 May 2019.

[7] 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).

[8] 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 User*. Proceedings of the 12th International Workshop on Wireless Network Testbeds, Experimental Evaluation & Characterization (WiNTECH 18), 2018, doi:10.1145/3267204.3267210.

[9] 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.

PARTICIPATION IN PROJECTS

Advanced Techniques to Strengthen the Intelligence of 5G Networks   2019-2022
Reference: P2018/TCS-4496
Principal investigator: Domenico Giustiniano
Financing entity: Comunidad de Madrid

ICE-T: RC: Performance Evaluation of Advanced Wireless Network Edge Infrastructure - Network Simulation & Test Beds   2018-2021

Reference: 1836725

Principal investigator: Sumit Roy

Financing entity: CNS Division Of Computer and Network Systems

SEARCHLIGHT: A new communication paradigm for future very high speed   2017-2019

Reference: ERC CoG 617721

Principal investigator: Joerg Widmer

Financing entity: European Research Council

Integrated Development and Operational Technologies of 5G Networks   2017-2018

Reference: S2013/ICE-2919

Principal investigator: Joerg Widmer

Financing entity: Comunidad de Madrid

LF assists HF in beam tracking and mobility   2017-2018

Reference: Huawei HF2016120010

Principal investigator: Joerg Widmer

Financing entity: Huawei Technologies (China)