Pablo Jiménez Mateo

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RESEARCH EXPERIENCE

IMDEA Networks Institute   September 2017 - Present
Research Assistant
Network management and control for mmWave communications.

University of Washington   March 2019 - June 2019
PhD internship
Improving device discovery for 802.11ad and 802.11ay.

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.

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, LaTeX, GIT, Linux, Mininet.
Languages	English (CAE Grade A), Spanish (Native), Catalan (Native).

PUBLICATIONS

[1] 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.

[2] 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).

[3] 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.

[4] 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).

[5] 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.

[6] 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

Técnicas Avanzadas para Potenciar la Inteligencia de las Redes 5G (TAPIR-CM) 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

Tecnologías Integradas de gestión y operación de Red 5G (TIGRE5-CM) 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)