

YURY JIMÉNEZ AGUDELO

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EMPLOYMENT

Lecturer, Dept. of Quantitative Methods, CUNEF Universidad, 2021-present, Madrid, Spain.

Full time professor and researcher, Fundación Universitaria Compensar, 2021, Bogotá, Colombia.

Courses: Telematic Services, Management of Services and Servers, Data Network, Theory of information and communications, Algorithm Design.

Full time professor and researcher. Universidad Católica de Colombia, 2018-2021, Bogotá, Colombia.

Directed Academic Activity, Universidad Politécnica de Cataluña (UPC), 2013. Barcelona, España.

EDUCATION

- **PhD in Telematics Engineering**, Universidad Politécnica de Cataluña (UPC), 2016. Barcelona, España.
- **Master in Telecommunication Engineering**, Universidad Nacional de Colombia (UN), 2009. Bogotá, Colombia.
- **B.E. Electronic Engineering**, Universidad de Cundinamarca, 2006. Fusagasugá, Colombia

FIELDS OF INTEREST

Data analysis, IoT, applied artificial intelligence, and emerging digital technologies.

PUBLICATIONS

Jiménez, Yury, Rodríguez Franco, N, Rico Martínez, Mónica. Simulation of a Radio over Fiber link for the transmission of cardio-respiratory diagnostic images of neonates.

Ingenium Revista De La Facultad De Ingeniería, 20(40). August 2020.
DOI:<https://doi.org/10.21500/01247492.4942>

Jimenez, Yury, Cervelló-Pastor, Cristina, García, Aurelio. Dynamic resource discovery protocol for software defined networks. *IEEE Communications Letters*. Vol. 19, No. 5, pp. 743-746, May 2015. **ISSN** impreso : 1089-7798, **DOI**: 10.1109 / LCOMM.2015.2403322

García, Aurelio, Cervelló-Pastor, Cristina and **Jiménez, Yury**. A Modular Simulation Tool of an Orchestrator for Allocating Virtual Resources in SDN. *International Journal of Modelling and Optimization*. Vol. 4, No. 2, pp 88-94, April 2014. **ISSN**2010-3697, **DOI**: 10.7763 / IJMO.2014.V4.352

WORKING PAPERS

Interpretable Neural Network Modeling for Predicting Student Outcomes in Online Education Using Polynomial Approximations.

Public Perception of Racial Discrimination on Social Media: A Computational Approach Using X Data.

SELECTED ACADEMIC HONOURS AND GRANTS

SHORT-TERM RESEARCH STAY, Visiting researcher, Computer science department Universidad Complutense de Madrid, December 2019. Madrid, Spain.

PhD Thesis title “Scalability and Robustness in Software-Defined Networking (SDN)”, Excellent Cum laude. Universidad Politécnica de Cataluña, July 2016.

SCHOLARSHIP AGAUR-FI-B , Call for FI-AGAUR research staff training grants to carry out the doctoral thesis at the UPC. Start date: 1/07/2011 End date: 30/06/2014.

SELECTED PRESENTATIONS

CONFERENCES

Conference Name: IEEE MetroInd4.0&IoT 2024. Title of Presentation: Cloud Aggregation of Sensor Data: An Application on Mood Disorder Analysis. Conference Dates: May 29-31, 2024

Conference Name: SIAM Conference on Computational Science and Engineering (CSE23). Title of Presentation: Mathematical Model and Characterization of Emotional Disorders Based on Non-Intrusive Monitoring System. Conference Dates: February 26 – March 3, 2023

PROFESSIONAL ACTIVITIES

- Supervision of Master's theses in the field of data analysis and applied technologies.
- Teaching and academic mentoring .
- Participation in academic program development and curriculum enhancement.
- Research in topics related to IA and data analysis