
About

I am a Post-Doc researcher at **Institute IMDEA Networks** and an Honorary Professor at **Universidad Carlos III de Madrid, Department of Telematics Engineering**. My research interests include Vehicular Networks, Wireless Networks, 5G Networks, Mobile Networks, and Big Data.

Academic and Professional Background

- Sep 2015 **Post-Doc researcher** - **Institute IMDEA Networks**, Leganes, Spain.
- Sep 2015 **Honorary professor** - **Universidad Carlos III de Madrid**, Leganes, Spain.
- Aug 2014 **Research fellow** - **IEIT-CNR**, Turin, Italy.
- Mar 2013 **Researcher** - **Istituto Superiore Mario Boella**, Turin, Italy.
- Sep 2012 **PhD title** in Telematics Engineering **Universidad Carlos III de Madrid**, Leganes, Spain. Score: *Summa cum laude*. Advisors: **Prof. Maria Calderon Pastor** and **Prof. Carlos J. Bernardos Cano**
- Dic 2009 **FPU grant** from the Spanish Ministry of Science and Innovation.
- Sep 2009 **MSc title** in Telematics Engineering **Universidad Carlos III de Madrid**, Leganes, Spain. Score: *Summa cum laude*
- Oct 2008 **PhD candidate** - **Institute IMDEA Networks**, Leganes, Spain.
- Apr 2008 **MSc Title** in Computer Science Engineering **Politecnico di Torino**, Turin, Italy. Score: 110/110

Teaching experience

- 2016-2017 **Access networks and shared media** - **Universidad Carlos III de Madrid**, Spain. (in English and Spanish)
- 2015-2016 **Access networks and shared media** - **Universidad Carlos III de Madrid**, Spain. (in English and Spanish)
- 2009-2010 **Network Infrastructure** - ERASMUS MUNDUS Network and E-Business Centred Computing (NeBCC) MSc Programme, **Universidad Carlos III de Madrid**, Spain. (in English)

Projects

- 5GNORMA** *Work package 5 leader*, H2020 program, 2015-2017.
- GAIN** *Participant*, FP7 program, 2012-2014.
- MEDIEVAL** *Participant*, FP7 program, 2010-2013.
- CARMEN** *Participant*, FP7 program, 2008-2010.
- GEONET** *Participant*, FP7 program, 2008-2010.

Publications

Conferences / Workshops

1. M. Gramaglia, M. Fiore, A. Tarable, and A. Banchs **Preserving Mobile Subscriber Privacy in Open Datasets of Spatiotemporal Trajectories** In: *IEEE INFOCOM (to appear)*, 2017.
2. D. Bega, M. Gramaglia, A. Banchs, V. Sciancalepore, K. Samdanis, and X. Costa-Perez **Optimising 5G infrastructure markets: The Business of Network Slicing** In: *IEEE INFOCOM (to appear)*, 2017.
3. V. Sciancalepore, K. Samdanis, X. Costa-Perez, D. Bega, M. Gramaglia, and A. Banchs **Mobile Traffic Forecasting for Maximizing 5G Network Slicing Resource Utilization** In: *IEEE INFOCOM (to appear)*, 2017.
4. B. Sayadi, M. Gramaglia, V. Friderikos, D. von Hugo, P. Arnold, M. Alberi-Morel, M.A. Puente, V. Sciancalepore, I. Digon, and M. Crippa **SDN for 5G Mobile Networks: NORMA Perspective**. In: *11th CROWNCOM International Conference*. 2016.
5. M. Gramaglia, I. Digon, V. Friderikos, D. von Hugo, C. Mannweiler, M.A. Puente, K. Samdanis, and B. Sayadi **Flexible connectivity and QoE/QoS management for 5G Networks: The 5G NORMA view** In: *IEEE International Conference on Communications (ICC) Workshop 5GArch*. 2016.
6. C. Glacet, M. Fiore, and M. Gramaglia **Temporal Connectivity of Vehicular Networks: The Power of Store-Carry-and-Forward** In: *IEEE Vehicular Networking Conference (VNC)*. 2015.
7. M. Gramaglia and M. Fiore **On the Level of Detail of Synthetic Highway Traffic Necessary to Vehicular Networking Studies** In: *IEEE Vehicular Networking Conference (VNC)*. 2015.
8. M. Gramaglia and M. Fiore **Hiding Mobile Traffic Fingerprints with GLOVE** In: *ACM CoNEXT*. 2015.
9. M. Gramaglia and M. Fiore **On the anonymizability of mobile traffic datasets** In: *NetMob book of abstracts*. 2015
10. M. Gramaglia, O. Trullols-Cruces, D. Naboulsi, M. Fiore, and M. Calderon. **Vehicular Networks on Two Madrid Highways**. In: *11th IEEE International Conference on Sensing, Communication, and Networking (SECON)*. 2014.

11. M. Gramaglia, C.J. Bernardos, M. Calderon, and A. de la Oliva. **Performance evaluation of a tree-based routing and address autoconfiguration for vehicle-to-Internet communications**. In: *11th International Conference on ITS Telecommunications (ITST)*. 2011.
12. M. Gramaglia, P. Serrano, J.A. Hernández, M. Calderon, and C.J. Bernardos. **New insights from the analysis of free flow vehicular traffic in highways**. In: *IEEE International Symposium on a World of Wireless, Mobile and Multimedia Networks (WoWMoM)*. 2011.
13. M. Gramaglia, M. Calderon, and C.J. Bernardos. **TREBOL: Tree-Based Routing and Address Autoconfiguration for Vehicle-to-Internet Communications**. In: *IEEE 73rd Vehicular Technology Conference (VTCSpring)*. 2011.

Journals

1. M. Gramaglia, O. Trullols-Cruces, D. Naboulsi, M. Fiore and M. Calderon **Mobility and connectivity in highway vehicular networks: A case study in Madrid**. *Elsevier Computer Communications*. 2015.
2. L. Bedogni, M. Gramaglia, A. Vesco, M. Fiore, J. Härrri and F. Ferrero **The Bologna ringway dataset: improving road network conversion in SUMO and validating urban mobility via navigation services**. *IEEE Transactions on Vehicular Technology*. 2015.
3. M. Gramaglia, M. Fiore, and M. Calderon **Measurement-based modeling of inter-arrivals for the simulation of highway vehicular networks**. *IEEE Communications Letters*. 2014.
4. M. Gramaglia, M. Calderon, and C.J. Bernardos. **ABEONA Monitored Traffic:VANET-Assisted Cooperative Traffic Congestion Forecasting**. *IEEE Vehicular Technology Magazine*. 2014.
5. M.I. Sanchez, M. Gramaglia, C.J. Bernardos, A. de la Oliva and M. Calderon. **On the implementation, deployment and evaluation of a networking protocol for VANETs: The VARON case**. *Elsevier Ad-Hoc Networks*. 2014.
6. M. Gramaglia, C.J. Bernardos, and M. Calderon. **Virtual induction loops based on cooperative vehicular communications**. *MDPI Sensors*. 2013.
7. M. Gramaglia, C.J. Bernardos, I. Soto, M. Calderon, and R. Baldessari. **IPv6 address autoconfiguration in geonetworking-enabled VANETs: characterization and evaluation of the ETSI solution**. *EURASIP Journal on Wireless Communications and Networking*. 2012.
8. M. Gramaglia, M. Urueña, and I. Martinez-Yelmo. **Off-line incentive mechanism for long-term P2P backup storage**. *Elsevier Computer Communications*. 2012.
9. M. Gramaglia, C.J. Bernardos, and M. Calderon. **Seamless internet 3G and opportunistic WLAN vehicular connectivity**. *EURASIP Journal on Wireless Communications and Networking*, 2011.
10. M. Gramaglia, I. Soto, C.J. Bernardos, and M. Calderon. **Overhearing Assisted Optimization of Address Auto-Configuration in Position Aware VANETs**. *IEEE Transactions on Vehicular Technology*. 2011.
11. M. Gramaglia, I. Soto, C.J. Bernardos, and M. Calderon. **Network-based Localized IP mobility Management: Proxy Mobile IPv6 and Current Trends in Standardization**. *Journal of Wireless Mobile Networks, Ubiquitous Computing, and Dependable Applications (JoWUA), Advances in Wireless Mobile and Sensor Technologies*. 2010.

Posters

1. M. Gramaglia. **Optimized IPv6 Internet access from vehicles in multi-hop and heterogeneous environments**. In: *IEEE International Symposium on a World of Wireless, Mobile and Multimedia Networks (WoWMoM)*. 2011.

Theses

1. M. Gramaglia. **VANET-Based optimization of infotainment and traffic efficiency vehicular services**. *Ph.D. Thesis*, Madrid, Spain, September 2012.
2. M. Gramaglia. **Speeding IPv6 Address Autoconfiguration for VANETs through Caching**. *M.Sc. Thesis*, Madrid, Spain, September 2009.
3. M. Gramaglia. **Analysis and implementation of routing algorithms for MAC-PHY 802.15.4 based ad-hoc networks**. *M.Sc. Thesis* Turin, Italy, April 2008.

Professional activities

Chairing Service

2016 IEEE Online Greencomm

TPC Service

Since 2010 IEEE Vehicular Technology Conference

Referee Service

IEEE Transactions on Intelligent Transportation Systems, IEEE Communication Letters, IEEE INFOCOM, IEEE Transactions on Vehicular Technology, MDPI Sensors, Computer Communications, IEEE Vehicular Technology Conference, IEEE

Transactions on Vehicular Technology, IEEE Vehicular Networking Conference, IEEE Transactions on Mobile Computing, IEEE Transactions on Networking.

Personal skills

Languages

Italian Native speaker.

English Speak, read and write with proficiency.

Spanish Speak, read and write with proficiency.

Computer Programming

C, C++, Java, JavaScript, Python, UNIX shell scripting, SQL, CUDA, Pandas, Matlab, Numpy, Git, SVN.

Networking protocols and technologies

IEEE 802.11, IEEE 802.3, IPv6, LTE, SDN, NFV, ETSI NFV MANO.

Contact

Address:

Avenida Mar Mediterraneo 22,
28918, Leganes, Madrid,
Spain

web: www.mgramaglia.com

e-mail: mgramagl@it.uc3m.es

e-mail: marco.gramaglia@imdea.org

phone: +34 914816978