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| Education | | | |
| **Sep ‘16**  **Present**  **Expected March ‘20** | | PhD Student, Telecommunication Engineering  Polytechnic University of Catalonia, Barcelona, Spain  *- Machine Learning applied to 5G Mobile Networks* | |
| **Sep ‘17**  **Feb ‘18** | | Visiting Academic, Dept. of Electrical and Computer Engineering  University of Maryland, College Park, US | |
| **Oct ‘13**  **Oct ‘15** | | Master’s degree in Telecommunication Engineering  University of Padua, Italy (Final Degree: 110 over 110) | |
| **Oct ’10**  **Jul ‘13** | | Bachelor’s degree in Information Engineering  University of Padua, Italy | |
| Work Experience | | | |
| **Sep ‘16**  **Present** | | Research Assistant, CTTC, **Barcelona, Spain**  *Main responsibilities:*   * Research Assistant in the Communication Networks Division of CTTC * Marie Skłodowska-Curie Fellow in the EU H2020 MSCA SCAVENGE * Dissemination of research activities and results at conference, talks and poster sessions | |
| **Oct ‘15**  **Sep ‘16** | | IT Consultant, SideUp Reply, Milan, Italy  *Main responsibilities:*   * AWS Saas Warehouse Management for online e-commerce (e.g. Costco, Alibaba’s Tmall) * ESB Integration for Logistics Process * Dev Tools: Amazon AWS, Oracle Database, MuleSoft, Apache Mule | |
| Publications | | | |
|  | Classification of Mobile Services and Apps through Physical Channel Fingerprinting: a Deep Learning Approach  HD. Trinh, AF. Gambin, L. Giupponi, M. Rossi, P. Dini *IEEE Transactions on Mobile Computing (under review)* | | |
|  | Detecting Mobile Traffic Anomalies through Physical Control Channel Fingerprinting: a Deep Semi-supervised Approach  HD. Trinh, E. Zeydan, L. Giupponi, P. Dini, *IEEE Access 2019* | | |
|  | Urban Anomaly Detection by Processing Mobile Traffic Traces with LSTM Neural Networks  HD. Trinh, L. Giupponi, P. Dini, *CyberEdge: Edge Computing for Cyber Physical System Workshop, 2019 IEEE International Conference on Sensing, Communication and Networking SECON, Boston, USA* | | |
|  | **Unveiling Radio Resource Utilization Dynamics of Mobile Traffic through Unsupervised Learning**  A. Rago, G. Piro, HD. Trinh, G. Boggia, P. Dini, *2019 TMA: Network Traffic Measurement and Analysis Conference, Paris, France* | | |
|  | Mobile Traffic Prediction from Raw Data Using LSTM Networks  HD. Trinh, L. Giupponi, P. Dini *2018 IEEE 29th Annual International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC), Bologna, Italy* | | |
|  | Analysis and Modeling of Mobile Traffic Using Real Traces  HD. Trinh, N. Bui, J. Widmer, L. Giupponi, P. Dini *2017 IEEE 28th Annual International Symposium on Personal, Indoor, and Mobile Radio Communications (PIMRC), Montreal, Canada* | | |
| Skills | | |
| > *Machine Learning:*  **- Time-series Prediction**  **- Anomaly Detection**  > *Wireless Communication:*  **- *Mobile Networks*: LTE, 5G, SDN**  > *Programming Languages:*  - *Advanced*: **Python, MATLAB, PL/SQL**  - *Intermediate*: **R, C++, scala**  **> Python**  - *Math and Visualization:* **numpy, pandas, matplotlib, seaborn, plotly**  - *ML and Statistics*: **sklearn, keras, tensorflow, pytorch, xgboost**  *> Others:*  - *DB*: **Oracle, MySQL, MongoDB**  - *other*: **git, Anypoint MuleSoft, Apache Mule, Spark** | | |
| Certified Courses  > Udacity:  **- Machine Learning Engineer Nanodegree**  **- PyTorch Scholarship Challenge from Facebook**  > Coursera:  **- Deeplearning.ai Specialization (5 courses)**  **- How Google does Machine Learning** | | |
| Languages  **> Italian** - Mother Tongue  **> English** - Work Proficiency  **> Spanish** - Work Proficiency  **> Vietnamese** - Basic Proficiency | | |