

Marco De Nadai

CONTACT INFORMATION	E-mail: me@marcodena.it Website: http://www.marcodena.it LinkedIn: http://nl.linkedin.com/in/marcodenadai GitHub: https://github.com/denadai2
ACTUAL POSITION	Ph.D. Student in Data Science <i>Fondazione Bruno Kessler - Università degli Studi di Trento, Italy</i> Cities' and people's behavioral study from mobile phone data and credit card transactions. Advisors: Dr. Bruno Lepri and Prof. Nicu Sebe
EDUCATION	Master's degree in Computer science , 110L/110, summa cum laude 2015 <i>Università degli Studi di Trento, Italy</i> Exchange Master's Student 2014 <i>Vrije Universiteit Amsterdam, The Netherlands</i> Bachelor's degree in Computer science , 100/110 2012 <i>Università degli Studi di Udine, Italy</i>
PROFESSIONAL EXPERIENCE	Data scientist 2015 <i>Fondazione Bruno Kessler, Italy</i> Research assistant on city science from mobile phone data. Data Scientist Intern 2014 – 2015 <i>Telecom Italia, Italy</i> Responsible of the project to find activity <i>hotspots</i> and associates socio-economic indexes such as GDP, wages, employment and epidemics, to the population's (mobile) activeness. Machine Learning Intern 2014 <i>University of Amsterdam, The Netherlands</i> Intern on a project about detecting anomalies in the gas consumption of around 20 buildings of Amsterdam. The project involved the construction of an Artificial Neural Network able to predict energy consumption. iOS developer 2013 <i>Ulook, Italy</i> iOS and API developer for Ulook, a fashion mobile application. I developed the app, proposed and applied a new design for a better user experience and optimized it for iOS 7. Lead web developer and Software Engineer 2008 – 2012 <i>MCZ GROUP S.p.A., Italy</i> PHP Zend Framework developer with knowledge in IBM AS/400 programming. Front-end developer experienced in A/B testing and marketing strategies. Developer of geo-marketing solutions aimed to map turnovers of MCZ GROUP's clients.
PUBLICATIONS	M. De Nadai, R. Vieriu, G. Zen, S. Dragicevic, N. Naik, M. Caraviello, C. A. Hidalgo, N. Sebe, and L. Bruno. Are Safer Looking Neighborhoods More Lively? A Multimodal Investigation into Urban Life . In <i>Proceedings of the international conference on Multimedia</i> . ACM, 2016b. Forthcoming M. De Nadai, J. Staiano, R. Larcher, N. Sebe, D. Quercia, and B. Lepri. The Death and Life of Great Italian Cities: A Mobile Phone Data Perspective . In <i>Proceedings of the 25th International Conference on World Wide Web</i> , pages 413–423. International World Wide Web Conferences Steering Committee, 2016a S. Centellegher, M. De Nadai, M. Caraviello, C. Leonardi, M. Vescovi, Y. Ramadian, N. Oliver, F. Pianesi, A. Pentland, F. Antonelli, and B. Lepri. The Mobile Territorial Lab: A multilayered and dynamic view on parents' daily lives . <i>EPJ Data Science</i> , 5(3), 2016. doi: 10.1140/epjds/s13688-016-0064-6

G. Barlacchi, M. De Nadai, R. Larcher, A. Casella, C. Chitic, G. Torrisi, F. Antonelli, A. Vespignani, A. Pentland, and B. Lepri. **A multi-source dataset of urban life in the city of Milan and the Province of Trentino.** *Scientific data*, 2015. doi:10.1038/sdata.2015.55

M. De Nadai and M. van Someren. **Short-term anomaly detection in gas consumption through ARIMA and Artificial Neural Network forecast.** In *Environmental, Energy and Structural Monitoring Systems (EESMS), 2015 IEEE Workshop on*, pages 250–255. IEEE, 2015. doi:10.1109/EESMS.2015.7175886

ORAL CONTRIBUTIONS **Investigating the relationships between spatial structures and urban characteristics** 2015
NetMob 2015 - MIT Media Lab - U.S.A.

POSTERS **Investigating the relationships between spatial structures and urban characteristics from mobile phone data** 2016
NetSci-X 2016 - Wroclaw, Poland

AWARDS **Best Master's student** 2016
University of Trento

Finalist Data Journalism Awards 2014 2014
Global Editors Network

Best mobile application 2014
Smau 2014

Special creativity price 2012
IED

PERSONAL PROJECTS **Westgate Attack** 2013
Master project

Visualization about the Westgate shopping mall attack case that took place in Nairobi, Kenya, during 21-24 September 2013. This project analyzed around 700'000 Tweets and tried to describe the events through the users' behavior. The beta can be found: <http://lstout.github.io/westgate/html/>.

A new massive data analytics approach to football 2013
Master project

Small framework of tools which enables the coaches to base their new strategies not only on their intuition and judgment, but also on comprehensive (and maybe not human-eye visible) statistics. The framework is composed by a training clustering, a trajectories clustering, a speed performance analysis and a passages pattern visualization.

Formal verification OAuth 2.0 protocol 2010
Bachelor project

Formal verification of the protocol OAuth 2.0 (draft 22) using the automatic cryptographic protocol verifier Proverif (<http://prosecco.gforge.inria.fr/personal/bblanche/proverif/>).

Komixjam.it 2006 – 2010
Developer - Founder

Brand creation and establishment of a community that counts 30'000 unique visits a day.

BACKGROUND *Certifications:* Scalable Machine Learning with Apache Spark
Advanced knowledge: Java, Objective-C, Python, PHP, Javascript, HTML5, CSS3, SQL
Medium knowledge: C, C++

LANGUAGES

- *English:* good (B2 level)
- *Italian:* native