

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 <i>Università degli Studi di Trento, Italy</i>	2015
	Exchange Master's Student <i>Vrije Universiteit Amsterdam, The Netherlands</i>	2014
	Bachelor's degree in Computer science , 100/110 <i>Università degli Studi di Udine, Italy</i>	2012
PROFESSIONAL EXPERIENCE	Visiting Student Research <i>Massachusetts Institute of Technology (MIT), Massachusetts (USA)</i> Spatial networks, social studies, urban planning, mobile phone data	2016
	Data scientist <i>Fondazione Bruno Kessler, Italy</i> Research assistant on city science from mobile phone data.	2015
	Data Scientist Intern <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.	2014 – 2015
	Machine Learning Intern <i>University of Amsterdam, The Netherlands</i> Anomalies detection in the gas consumption. Artificial Neural Networks to predict energy consumption.	2014
	iOS developer <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.	2013
	Lead web developer and Software Engineer <i>MCZ GROUP S.p.A., Italy</i> PHP Zend Framework, IBM AS/400, geo-marketing. Front-end developer experienced in A/B testing and marketing strategies.	2008 – 2012
PUBLICATIONS	M. De Nadai, R. Vieri, 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>MM. ACM</i> , 2016b	
	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>WWW</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. Pisanesi, 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. Torrìsi, 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](https://doi.org/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](https://doi.org/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

 Tools enabling football coaches to empirically create new strategies from extracted statistics. The framework is composed by a player and 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 *Academic reviewer of:* Data Mining and Knowledge Discovery, DAPS2016
 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