

✉ me@marcodena.it • 🌐 marcodena.it • 🐦 [denadai2](https://twitter.com/denadai2) • 🔄 [denadai2](https://github.com/denadai2) • **in** [marcodenadai](https://www.linkedin.com/company/marcodenadai)

— Current position

Education

Work Experience

Skills

— Publications

2019	<i>Gesture-to-Gesture Translation in the Wild via Category-Independent Conditional Maps</i> L- Yahui, M. De Nadai , G. Zen, N. Sebe and B. Lepri	In review
2019	<i>Apps, Places and People: strategies, limitations and trade-offs in the physical and digital worlds</i> M. De Nadai , A. Cardoso, A. Lima, B. Lepri, and N. Oliver	In review arXiv:1904.09350

2019	<i>Precise mapping, density and spatial structure of all human settlements on Earth</i> E. Strano, F. Simini, M. De Nadai , T. Esch, and M. Marconcini	Submitted
2018	<i>The economic value of neighborhoods: Predicting real estate prices from the urban environment</i> M. De Nadai and B. Lepri	DSAA '18 doi:10.1109/DSAA.2018.00043
2016	<i>Are safer looking neighborhoods more lively? a multimodal investigation into urban life</i> M. De Nadai , R. Vieri, G. Zen, S. Dragicevic, N. Naik, M. Caraviello, C. A. Hidalgo, N. Sebe, and B. Lepri.	ACM MM '16 doi:10.1145/2964284.2964312
2016	<i>The death and life of great italian cities: A mobile phone data perspective</i> M. De Nadai , J. Staiano, R. Larcher, N. Sebe, D. Quercia, and B. Lepri	WWW '16 doi:10.1145/2872427.2883084
2016	<i>The mobile territorial lab: A multilayered and dynamic view on parents' daily lives</i> S. Centellegher, M. De Nadai , M. Caraviello, C. Leonardi, M. Vescovi, Y. Ramadian, N. Oliver, F. Pianesi, A. Pentland, F. Antonelli, and B. Lepri.	EPJ Data Science doi:10.1140/epjds/s13688-016-0064-6
2015	<i>A multi-source dataset of urban life in the city of milan and the province of trentino</i> G. Barlacchi, M. De Nadai , R. Larcher, A. Casella, C. Chitic, G. Torrisi, F. Antonelli, A. Vespignani, A. Pentland, and B. Lepri	Nature Scientific data doi:10.1038/sdata.2015.55
2015	<i>Short-term anomaly detection in gas consumption through arima and artificial neural network forecast</i> M. De Nadai and M. van Someren	IEEE EESMS '15 doi:10.1109/EESMS.2015.7175886

Projects

- 2019 **Generative Adversarial Networks (GANs) for urban spaces**, *Ongoing work*.
Designed a GAN model to propose *what* and *where* a Point of Interest can be added to a neighborhood, conditionally to the aerial image (e.g. satellite or maps) describing it.
- 2018 **Prediction of people's activity and real estate prices**, *Industrial work*.
Developed and implemented a predictive model to predict housing prices from structured data and Google Street View images. Deployed in production in multiple cities.
- 2017 **Data fusion of GIS, mobile phone, and census to predict crime**, *Ongoing work*.
Developed a MCMC Bayesian regression model to explore and predict geo-located crime from structured data and matrices of people's movements between urban areas. Deployed in five cities.

Awards

- 2017 **Microsoft Azure Research Award**. Azure cloud credits for my research. €20,000.00
- 2017 **1st Place**. Italian Football Federation Match Analysis competition. €5,000.00
- 2017 **Travel and Accomodation Grant**. Computational Social Science Summer school.
- 2016 **Travel Grant**. ACM grant for the Multimedia 2016 conference.
- 2016 **Travel Grant**. Google grant for the WWW 2016 conference.
- 2016 **Best Master student**. University of Trento.

Other activities

PC member	ACM MM 2019 · ICDCS 2018 · DAPS 2017	
Reviewer	KDD 2018-2019 · Ubicomp · Plos one · EPJ Data Science · DAMI · JOSIS · GeoJournal	
S. Schools	Computational Social Science Summer school (2017)	Sant'Antioco, Italy
	Complex networks: theory, methods, and applications (2017)	Como, Italy

Languages

English	C1 level
Italian	Native