



LORENZO MONTI

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IN SHORT

PhD student at University of Bologna, attending the “Computer Science and Engineering” PhD course. Main research activity comprehends the area of the Human Computer Interaction in the Internet of Things context.

EDUCATION

PhD Student

Computer Science and Engineering

November, 2017 → Now

University of Bologna, Italy

- Studies in the field of Internet of Things and Human Computer Interaction, focusing on novel enabling approaches, architectures and technologies.

Master's degree

Computer Science and Engineering

October, 2014 → March, 2017

University of Bologna, Italy

- I obtained my Masters degree at the University of Bologna with a thesis called GlovePi: a wearable device to support many-to-many communication between deaf and blind users.
- External site: <https://amslaurea.unibo.it/13206/>
- 105/110

Relator: Prof.ssa Silvia Mirri

EXPERIENCE

Teaching assistant for the course “Tecnologie Web”

School of Engineering and Architecture

Sept. → Dec., 2018

University of Bologna, Italy

- Supervisor: Prof. Paola Salomoni
- Course Info: <https://iol.unibo.it/course/view.php?id=25030>

Teaching assistant for the course “Tecnologie Web”

School of Engineering and Architecture

Sept. → Dec., 2017

University of Bologna, Italy

- Supervisor: Prof. Paola Salomoni
- Course Info: <https://iol.unibo.it/course/view.php?id=13004>

Teaching assistant for the course “Applicazioni e Servizi Web”

School of Engineering and Architecture

Sept. → Dec., 2017

University of Bologna, Italy

- Supervisor: Prof. Silvia Mirri
- Course Info: <https://iol.unibo.it/course/view.php?id=23117>

Research Fellow, “Assegnista di ricerca”

Department of Informatics – Science and Engineering (DISI)

April, 2017 → October, 2017

University of Bologna, Italy

- Project title: “SACHER: Smart Architecture for Cultural Heritage in Emilia-Romagna”

- Goal: the project aims to provide a fundamental contribution to the enhancement and protection of Cultural Heritage, guaranteeing to cultural institutions, conservation-restoration experts and the public an innovative ICT platform, available on the Web, which facilitates access to data on Cultural Heritage (BBCC) throughout the whole phase of their life.
- Supervisor: Prof. Silvia Mirri <https://github.com/SACHER-project>

Full stack developer

December, 2015 → March, 2016

- Full stack developer for Stivaleria F.lli Fabbri S.n.c.
- Responsible for developing a boot configurator (front-end) and a management (back-end) verticalized to the company's core business.

Mobile developer

March, 2014 → March, 2015

- Mobile developer at Aurel S.p.A.
- Responsible for developing an Android app for a proprietary home automation application.

LIST OF PUBLICATIONS

- [1] Davide Aguiari, Chiara Contoli, Giovanni Delnevo, and Lorenzo Monti. Smart mobility and sensing: Case studies based on a bike information gathering architecture. In *International Conference on Smart Objects and Technologies for Social Good*, pages 112–121. Springer, 2017.
- [2] Davide Aguiari, Giovanni Delnevo, Lorenzo Monti, Vittorio Ghini, Silvia Mirri, Paola Salomoni, Giovanni Pau, Marcus Im, Rita Tse, Mongkol Ekpanyapong, et al. Canarin ii: Designing a smart e-bike eco-system. In *2018 15th IEEE Annual Consumer Communications & Networking Conference (CCNC)*, pages 1–6. IEEE, 2018.
- [3] Giovanni Delnevo, Andrea Melis, Silvia Mirri, Lorenzo Monti, and Marco Prandini. Discovering the city: Crowdsourcing and personalized urban paths across cultural heritage. In *International Conference on Smart Objects and Technologies for Social Good*, pages 132–141. Springer, 2017.
- [4] Giovanni Delnevo, Silvia Mirri, Lorenzo Monti, Catia Prandi, Manesha Putra, Marco Roccetti, Paola Salomoni, and Robert J Sokol. Patients reactions to non-invasive and invasive prenatal tests: a machine-based analysis from reddit posts. In *2018 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM)*, pages 980–987. IEEE, 2018.
- [5] Giovanni Delnevo, Lorenzo Monti, Federico Foschini, and Luca Santonastasi. On enhancing accessible smart buildings using iot. In *2018 15th IEEE Annual Consumer Communications & Networking Conference (CCNC)*, pages 1–6. IEEE, 2018.
- [6] Giovanni Delnevo, Lorenzo Monti, Francesco Vignola, Paola Salomoni, and Silvia Mirri. Almawhere: A prototype of accessible indoor wayfinding and navigation system. In *2018 15th IEEE Annual Consumer Communications & Networking Conference (CCNC)*, pages 1–6. IEEE, 2018.
- [7] Silvia Mirri, Catia Prandi, Paola Salomoni, and Lorenzo Monti. Social location awareness: A prototype of altruistic iot. In *2016 8th IFIP International Conference on New Technologies, Mobility and Security (NTMS)*, pages 1–5. IEEE, 2016.
- [8] Silvia Mirri, Catia Prandi, Paola Salomoni, and Lorenzo Monti. Fitting like a glovepi: A wearable device for deaf-blind people. In *2017 14th IEEE Annual Consumer Communications & Networking Conference (CCNC)*, pages 1057–1062. IEEE, 2017.
- [9] Lorenzo Monti and Giovanni Delnevo. On improving glovepi: Towards a many-to-many communication among deaf-blind users. In *2018 15th IEEE Annual Consumer Communications & Networking Conference (CCNC)*, pages 1–5. IEEE, 2018.

- [10] Lorenzo Monti, Giovanni Delnevo, Silvia Mirri, Paola Salomoni, and Franco Callegati. Digital invasions within cultural heritage: Social media and crowdsourcing. In *International Conference on Smart Objects and Technologies for Social Good*, pages 102–111. Springer, 2017.
- [11] Lorenzo Monti, Catia Prandi, and Silvia Mirri. Iot and data visualization to enhance hyperlocal data in a smart campus context. In *Proceedings of the 4th EAI International Conference on Smart Objects and Technologies for Social Good*, pages 1–6. ACM, 2018.
- [12] Catia Prandi, Andrea Melis, Marco Prandini, Giovanni Delnevo, Lorenzo Monti, Silvia Mirri, and Paola Salomoni. Gamifying cultural experiences across the urban environment. *Multimedia Tools and Applications*, 78(3):3341–3364, 2019.
- [13] Catia Prandi, Lorenzo Monti, Chiara Ceccarini, and Paola Salomoni. Smart campus: Fostering the community awareness through an intelligent environment. *Mobile Networks and Applications*, pages 1–8, 2019.
- [14] Rita Tse, Lorenzo Monti, Catia Prandi, Davide Aguiari, Giovanni Pau, and Paola Salomoni. On assessing the accuracy of air pollution models exploiting a strategic sensors deployment. In *Proceedings of the 4th EAI International Conference on Smart Objects and Technologies for Social Good*, pages 55–58. ACM, 2018.

LANGUAGE SELF-ASSESSMENT

	Listening	Reading	Interaction	Speaking	Writing
Italian	Native language				
English	B2	B2	B2	B2	B2

TECHNICAL STRENGTHS

Hardware configuration	Desktop & notebook PCs assembling
Programming Paradigms	imperative, object oriented, functional programming
Software configuration	Linux, Mac and Windows installation and configuration
Programming Languages	C, Java, JavaScript, PHP, Python
Data Analysis Tools	R, Python + Pandas/NumPy/Matplotlib
Networking	HTTP, RESTful WebAPI
Databases	SQL, MySQL, MongoDB
Development tools	Git, Gradle, Docker
Markup languages	JSON, HTML, Markdown, \LaTeX
IDEs	Eclipse, IntelliJ Idea, Visual Studio, Android Studio, PyCharm, Atom

ADDITIONAL INFORMATION

Interests: Music, coding, playing guitar, reading, astronomy and travel.

Lorenzo Monti, October 13, 2019

