

Umberto Fugiglando

Curriculum Vitæ

Education

- 2016 **M.Sc. in Mathematics and Engineering**, Politecnico di Torino, Italy.
- 2016 **ASP Diploma**, Politecnico di Torino and Politecnico di Milano, Italy. *Alta Scuola Politecnica is a honor program for selected 150 students.*
- 2014 **Erasmus program**, KTH Royal Institute of Technology, Sweden.
- 2013 **B.Sc. in Applied Mathematics**, Politecnico di Torino, Italy.

Occupations

- MIT Massachusetts Institute of Technology**, Cambridge, MA (USA).
- 2018–present **Research Manager & Partnerships Lead** at the MIT Senseable City Lab, a multidisciplinary and intercultural research group of 40 people, pioneering in the field of senseable smart cities. Beyond managing urban mobility-related projects, I am in charge of developing and maintaining research partnerships between companies, cities and foundations worldwide, developing multi-million dollars collaborations. Moreover, I regularly speak at high-level international conferences and corporations' events, contributing in the fields of smart and connected cities, urban mobility and innovative urban technology (see full list on the last page).
- 2016–2018 **Research Fellow & Project Lead** Performing, and eventually leading, academic research on data science applied to smart cities initiatives, with a focus on human driving and mobility patterns in cities. I published research in collaboration with Audi, Allianz and Brose on human driving behavior characterization, car telematics, smartphone sensing, and climate comfort.
- 2019 **European Commission**, *External expert* advising on the future of urban mobility.
- 2015, 2019 **CISIA** (Consorzio Interuniversitario Sistemi Integrati per l'Accesso), *Consultant* for the developing of the admission test for public Italian universities.
- 2016 **PR.O. Voice S.r.l.**, *Intern* involved in projects and experiments for detecting human speech dysfunctions through vocal folds' vibrations.

Publications

- Peer-reviewed
Journal papers
- U. Fugiglando**, E. Massaro, P. Santi, S. Milardo, K. Abida, R. Stahlmann, F. Netter, C. Ratti, *Driving behavior analysis through CAN bus data in an uncontrolled environment*, IEEE Transactions on Intelligent Transportation Systems, 20 (2), February 2019.
- A. Astolfi, A. Castellana, G. E. Puglisi, **U. Fugiglando**, A. Carullo, *Speech level parameters in very low and excessive reverberation measured with a contact-sensor-based device and a headworn microphone*, Journal of the Acoustical Society of America, 145 (4), April 2019.
- A. Castellana, A. Carullo, A. Astolfi, G. E. Puglisi, **U. Fugiglando**, *Intra-speaker and inter-speaker variability in speech sound pressure level across repeated readings*, Journal of the Acoustical Society of America, 141 (4), April 2017.
- Conference
proceedings
- U. Fugiglando**, D. Santucci, I. Bojic, P. Santi, T. C. To Cheung, S. Schiavon and C. Ratti, *Developing personal thermal comfort models for the control of HVAC in cars using field data*, Proceedings of the 10th Windsor Conference, Windsor, UK, 12-15 April 2018.
- D. Santucci, **U. Fugiglando**, X. Li, T. Auer, and C. Ratti, *Methodological framework for evaluating liveability of urban spaces through a human centred approach*, Proceedings of the 10th Windsor Conference, Windsor, UK, 12-15 April 2018.
- U. Fugiglando**, P. Santi, S. Milardo, K. Abida, C. Ratti, *Characterizing the "Driving DNA" through CAN bus data*, ACM International Workshop on Connected and Automated Vehicle, October 20, 2017, Snowbird, UT, USA.
- A. Castellana, A. Carullo, **U. Fugiglando**, G. E. Puglisi, A. Astolfi, *Speech sound pressure level distributions and their descriptive statistics in successive readings for reliable voice monitoring*, Acoustics '17 Boston, Journal of the Acoustical Society of America, 141 (5), pag. 3542, May 2017.
- A. Castellana, A. Carullo, A. Astolfi, S. Corbellini, G. E. Puglisi, M. Spadola Bisetti, J. Colombini, **U. Fugiglando**, *CPPS distributional shape and parameters as effective tools to discriminate dysphonic and healthy voice*, 45th Annual Symposium: Care of the Professional Voice, Philadelphia (USA), 1-5 June 2016, p. 19.
- A. Astolfi, G. E. Puglisi, **U. Fugiglando**, A. Carullo, A. Castellana, *Speech level in rooms with very low and very high reverberation*, EuroRegio 2016, Porto (Portugal), 13-15 June 2016, pp. 1-10.
- A. Astolfi, G. E. Puglisi, A. Carullo, A. Castellana, **U. Fugiglando**, *Effetti di scarsa ed eccessiva riverberazione sul parlato continuo*, 43 National Congress of the Italian Acoustic Association, Alghero (Italy), 25-27 May 2016, pp. 1-8.
- Other
contributions
- European Commission, *State of Play of Digital Transformation in Selected Policy Areas 2018*, external expert for the chapter "Digital Transformation in Transport".
- European Commission, *The Future of Road Transport*, 2019, external expert for the whole report.

Selected Speaking Engagements

- Feb. 11, 2020 *GLOBE Summit*, Vancouver, Canada
- Nov. 26, 2019 Panelist, *Digitalize Stockholm Conference*, Stockholm, Sweden
- Nov. 14, 2019 *MIT-ILP Research&Development Conference*, Cambridge, MA
- Nov. 11, 2019 Briefing to the Managing Board, *United Nation's JSPF*, New York, NY
- Sep. 13, 2019 Keynote+panelist, *Gather Festival*, Stockholm, Sweden
- Sep. 11, 2019 Speech on the main stage, *IAA Conferece*, Frankfurt, Germany
- Sep. 3, 2019 Speech on the main stage, *World Tourism Cities Federation Summit*, Helsinki, Finland
- Aug. 30, 2019 *World Artificial Intelligence Conference*, Shanghai, China
- Aug. 25, 2019 Keynote, *Sinar Mas Land's annual conference*, Jakarta, Indonesia
- Jun. 4, 2019 *International Conference on Electricity Distribution*, Madrid, Spain
- May 14, 2019 Panelits, *Automotive Dealer Day*, Verona, Italy
- Apr. 12, 2019 Keynote, *Forum on Future Cities (with the World Economic Forum)*, Cambridge, MA
- Mar. 21, 2019 Keynote, *Canton Vaud Smart Mobility Governance Conference*, Lausanne, Switzerland
- Mar. 7, 2019 *EU New HoRRlzon workshop*, Prague, Czech Republic
- Oct. 23, 2018 Panelist, *ENEL Academic Partners Annual Meeting*, Rome, Italy
- Oct. 4, 2018 Keynote+panelist, *30 Visions on Sustainability Congress*, Madrid, Spain
- Sep. 13, 2018 *Allianz Asia annual conference*, Singapore
- Sep. 6, 2018 *Connected Car and Smart Mobility Asia*, Singapore
- Jul. 18, 2018 *Lightweighting in urban systems*, Stuttgart, Germany
- Jun. 26, 2018 *Allianz Innovation Festival*, Guangzhou, China
- Jun. 12, 2018 Keynote, *EU Joint Research Center*, Ispra, Italy
- Apr. 13, 2018 *Windsor Comfort Conference*, Windsor, UK
- Mar. 3, 2018 *Karlsruhe Dialogues*, Karlsruhe, Germany
- Feb. 28, 2018 *Future of the waterside of the Tokyo East Bay Area Conference*, Tokyo, Japan
- Oct. 20, 2017 *ACM International Workshop on Connected and Automated Vehicle*, Snowbird, UT
- Oct. 1, 2017 Judge, *Unearthed hackathon*, Vancouver, Canada
- Jul. 28, 2017 *Brose HQ*, Bamberg, Germany
- Apr. 22, 2017 *Octo Telematics' Telematics in Action Conference*, Austin, TX

Activities and volunteering

- 2013–2016 Co-founder and member of "PoliEttnico", the multi-cultural chorus at Politecnico di Torino. The choir counts more than 100 members and has become one of the identifying groups of Italy's top technical university, with concerts in Italy and abroad.
- 2005–2016 Coordinator and organist of the Children's Choir at S. Matteo Church in Moncalieri, Italy. I volunteered for over a decade, passionately teaching music to children. I was in charge of the musical direction of the weekly rehearsals and performances, also managing the agenda of the choir and its musical and territorial development.

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