

curriculum vitae



PERSONAL INFORMATION

Surname	Terenghi
Name	Ginevra
Address	15 Rosefield Garden (E148ER), London - UK
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Nationality	Italian
Date of birth	19/02/1993

Education and training

	Communication Design
• Date	April 2019 – March 2016
• Name and type of organisation providing education and training	Politecnico di Milano
Duration of the program of study	2 years (+ 6 months: integrative courses)
• Principal subjects/occupational skills covered	Design
• Title of qualification awarded	Master Degree (LM-12)
Final mark obtained	110 Lode/110

	Linguaggi dei Media
• Date (2015 – 2012)	July 2015 - September 2012
• Name and type of organisation providing education and training	Università Cattolica del Sacro Cuore, Milano
Duration of the program of study	3 years
• Principal subjects/occupational skills covered	Scienze della Comunicazione (interfacoltà Lettere e Filosofia) Focus on Advertising
• Title of qualification awarded	Bachelor Degree (L-20)
Final mark obtained	108/110

	Liceo Artistico
• Date	July 2012 – September 2007
• Name and type of organisation providing education and training	Liceo Artistico Preziosissimo Sanguè, Monza
Duration of the program of study	5 years
• Principal subjects/occupational skills covered	Sezione Architettura
• Title of qualification awarded	Undergraduate Degree
Final mark obtained	87/100

graduation thesis

Title	Disclosing cyber-attacks on water distribution systems. An experimental approach to the sonification of threats and anomalous data.
Language	Italian
Supervisor	Paolo Ciuccarelli (Tutor: Sara Lenzi)
Thesis Summary	<p>The devices used to monitor and control the water supply network are transforming the system from physical to cyber-physical, in order to increase the reliability and controllability, but at the same moment, these technologies expose the system to cyber threats. The increasing number of cyber-physical attacks to the water supply systems make necessary a frequent and accurate way to communicate anomalies. Considering during the work day analysts are occupied in many mansions which prevent them from focusing their attention on the screen visualisations, the project proposes a data sonification approach to express the first level of information, useful to monitor the status of the system.</p> <p>The sonification developed describes the system status, calculating how the data reported from sensors positioned on the network is different from the prediction described by an algorithm that does not consider any possible irregularity. (Project is based on an algorithm developed for an International competition by Galelli and Taormina)</p>

publications and articles submitted

Author(s) and title	Lenzi S., Terenghi G., Taormina R., Galelli S., Ciuccarelli P., "DISCLOSING CYBER ATTACKS ON WATER DISTRIBUTION SYSTEMS. AN EXPERIMENTAL APPROACH TO THE SONIFICATION OF THREATS AND ANOMALOUS DATA"
Language	English
Publication place	ICAD 2019 - International Conference on Auditory Display
Date of publication	June 2019
Prize	Best use of Sound

certifications

Certifications of language knowledge	IELTS (score: 6) - January 2015
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Work experience, stages, studies abroad

• Date	March 2018 – January 2019
• Name and address of firm/university	Density Design Research Lab (Politecnico di Milano)

• Type of business or sector	Complex issue representation and Data visualisation
• Type of employment	Internship and (unofficial) teaching assistant
• Main activities and responsibilities	Dashboard visual interface design

• Date	March 2013 – September 2017
• Name and address of firm/university	Carnelli 1893
• Type of business or sector	Clothes shop
• Type of employment	Paid employment
• Main activities and responsibilities	Shop assistant, check-out assistant, visual merchandiser

• Date	June – September 2012
• Name and address of firm/university	Obiettivo foto Snc., Villasanta
• Type of business or sector	Photography
• Type of employment	Internship
• Main activities and responsibilities	Photo post-production activity and analog development

• Date	June – September 2011
• Name and address of firm/university	Arti grafiche Meroni, Lissone
• Type of business or sector	Print
• Type of employment	Internship
• Main activities and responsibilities	Support to graphic department

Personal skills and competences

Mother tongue	Italian
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Other language(s)

	English (level: B2)
• reading	Good
• writing	Good
• speaking	Good

	Spanish (level: B1)
• reading	Elementary
• writing	Elementary
• speaking	Elementary

Social skills and competences	Working in group with people from different cultures (American, Indian, Chinese) and different background (design, sociology, engineering), accepting different point of view without losing the right to make a stand. Acquired during University classes, DataShack Program, Digital Methods Initiative - Summer/Winter School
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Organisational skills and competences	Work organisation and group coordination, considering deadlines and personal members' skills. But also, work executer when the project is coordinated by others. Capability to work under stress.
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Technical skills and	Working with computer, visual/video programme (Adobe Suite) and audio software
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competences	(Ableton Live). Able to order and organise data (Microsoft Excel, Open Refine, Gephi, QGIS...) and coding (HTML, CSS).
Artistic skills and competences	Painting, Drawing and model techniques. Acquired during Art School and free time
Other skills and competences	Photography (acquired during Photography class in 2011 and during "Seeign Through Photograph" on line Course at coursera.org, April 2016)

Additional information (Experiences)	<p>Speaker at Air Pollution Data Activism Workshop at King's College London, with Jonathan Gray, Nerea Calvillo Gonzalez, Emma Garnett and Diana Silva (January 2020)</p> <p>Attendance at Digital Methods Workshop at King's College London, with Jonathan Gray, Liliana Bounegru, Rina Tsubaki and Gabriele Colombo (November 2019)</p> <p>Volunteer for Encode, conference about Data journeys in design, journalism and education in London (September 2019)</p> <p>Data journalism online course, on datajournalism.com (September-October 2019)</p> <p>Facilitator at University of Amsterdam Digital Methods Initiative - Summer and Winter School (January 2019, July 2018)</p> <p>Attendance at Web Audio Composition Workshop by Alessandro Contini (June 2018)</p> <p>Attendance at Data-shack Program, in collaboration with Harvard University (January - May 2018)</p> <p>Additional courses attempted from March to June 2016 at Polimi:</p> <ul style="list-style-type: none"> - Laboratorio di fondamenti per il progetto, Professors Elio Carmi, Mario Piazza and Francesco Ermanno Guida; - Laboratorio di progetto della comunicazione visiva, Professors Anna Steiner and Paolo Accanti; - Software e grafica per il web, Professor Umberto Tolino
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Annexes	<p>[1] Portfolio online version: https://ginevraterenghi.github.io/portfolio/</p> <p>[2] Paper: Lenzi S., Terenghi G., Taormina R., Galelli S., Ciuccarelli P., "DISCLOSING CYBER ATTACKS ON WATER DISTRIBUTION SYSTEMS. AN EXPERIMENTAL APPROACH TO THE SONIFICATION OF THREATS AND ANOMALOUS DATA", on line version: https://www.researchgate.net/publication/333631664_DISCLOSING_CYBER_ATTACKS_ON_WATER_DISTRIBUTION_SYSTEMS_AN_EXPERIMENTAL_APPROACH_TO_THE_SO_NIFICATION_OF_THREATS_AND_ANOMALOUS_DATA</p>
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