

Scientific CV

Contacts

Tommaso Elli, PhD

Have a look at my Bento:

<https://bento.me/tommasoelli>

Have a look at my portfolio:



Connect on LinkedIn:

<https://www.linkedin.com/in/tommaso-elli>

About Me

I'm a design researcher with 9+ years of experience. I am specialized in digital design and information visualization, working across the digital humanities, social sciences, creative coding and digital culture with a critical eye.

My work blends qualitative insight with computational methods, often through creative coding and front-end web development. My research is committed to open-access principles and actively engages in open-source and open-science initiatives. I'm currently exploring sustainability in the context of fashion retail, with a focus on participatory methods and digital tools. When useful, I create digital and data-driven tools to support my own research.

I serve as volunteer, board member, and co-founder of Associazione Abilitiamo Autismo ODV, a local organization dedicated to improving the quality of life for autistic adults and their families. The organization provides essential healthcare services and has received several medium to large grants in recognition of its work.

Focus areas: Information Visualization · Digital Humanities · UI/UX · Critical Design · Creative Coding · Sustainable Fashion · Design for Non -Profit

Work Experience *9+ years of research-related employment and a total of 14 years of professional work.*

Feb 2023 – Feb 2026 **Junior Assistant Professor, fixed-term (RTD-A)**

Institution: Dipartimento di Design, Politecnico di Milano

Supervisor: Prof. Valeria Iannilli

Task: Involved in the project Multilayered Urban Sustainability Action (MUSA) Italian NRRP

Focus area: Sustainability for Fashion Retail

Work Experience *9+ years of research-related employment and a total of 14 years of professional work.*
Oct 2021 – Feb 2023 **Post-doc researcher (assegnista di ricerca)**

Institution: DensityDesign Research Lab, Dipartimento di Design, Politecnico di Milano

Supervisor: Dr. Michele Mauri

Task: Management of research projects in the area of information design, information visualization and digital humanities

Focus area: Information Visualization and Digital Humanities

Oct 2019 – Apr 2020 **Visiting Researcher**

Institution: VIALAB, Faculty of Science, Ontario Tech University

Supervisor: Prof. Dr. Christopher Collins

Task: Ideation of visualization of sensitive and qualitative data (<https://tiedinknots.io>)

Focus area: Information Visualization and Digital Humanities

Jan 2016 – Oct 2017 **Research Fellow (assegnista di ricerca)**

Institution: DensityDesign Research Lab, Dipartimento di Design, Politecnico di Milano

Supervisor: Prof. Paolo Ciuccarelli

Task: Conduction of research projects in the area of information design, information visualization and digital humanities

Focus area: Information Visualization and Digital Humanities

Sep 2015 – Dec 2015 **Technician Assistant**

Company: WEWORK Fablab, Enaip Factory, Cantù

Task: Digital fabrication, design plus development of products prototypes

Focus Area: Digital Fabrication

Jan 2015 – Apr 2015 **Digital Designer (internship)**

Institution: FUD Factory SRL, Milan

Task: Design of communication design artifacts for brands

Focus area: Communication Design, Branding

Mar 2014 – Jun 2014 **Information Designer (internship)**

Institution: DensityDesign Research Lab, Dipartimento di Design, Politecnico di Milano

Task: Design of data visualizations

Focus area: Business or sector: Information Visualization

Sep 2011 – Oct 2012 **Web Designer (part-time)**

Company: JET SRL, Seregno

Task: Design and development of websites for local companies

Focus area: Business or sector: Web Design

Education and Training

May 2023 – Jul 2025 **Talent Development Program (1st & 2nd edition)**

Politecnico di Milano

- Management of time, people, and projects
- Leadership and assertiveness
- Scientific Writing and research metrics
- Proposals and project writing

Nov 2017 – Feb 2022 ★ **PhD in Design [EQF level 8]** ★

Institution: Scuola di Dottorato, Dipartimento di Design, Politecnico di Milano

Supervisors: Prof. Paolo Ciuccarelli, Dr. Michele Mauri

Dissertation title: Research through Visualization in Literary Criticism, Adapting Data Visualization to Scholars' Interpretive Work

Focus area: Developed theories for designing visualizations for literary criticism; designed and developed atlantecalvino.unige.ch (Honourable mention ADI's Compasso d'oro)

Oct 2019 – Apr 2020 **Visiting Researcher**

VIALAB, Faculty of Science, Ontario Tech University

Supervisor: Dr. Christopher Collins

Focus area: See Work Experience for details.

Oct 2019 **Doctoral Colloquium**

Institution: IEEE VIS 2019 - Vancouver

Task: Presented advancements of doctoral research to a panel of experts in visualization

Oct 2012 – Jul 2015 **Master's degree in communication design – 110L [EQF level 7]**

Institution: Scuola del Design, Politecnico di Milano

Focus Area: Acquired skills in UI/UX design, information visualization, and communication Design

Oct 2009 – Jul 2012 **Laurea Triennale in Design della Comunicazione – 109 [EQF level 6]**

Institution: Scuola del Design, Politecnico di Milano

Focus Area: Acquired skills in creation of visual identity, typography and other visual design skills

Sep 2004 – Jun 2009 **Diploma di Liceo Scientifico – 80/100 [EQF level 4]**

Institution: Liceo scientifico Galileo Galilei, Erba

Scientific Publications 30+ among peer-reviewed papers and grey literature

15 Conference Papers Elli, T. (forthcoming 2025). Unveiling Ecosystems of Sustainable Fashion Initiatives: A Visual Network Analysis Approach. Designing Retail & Services Futures.

Elli, T., Briones Rojas, M. D. L. A., Gobbo, B., & Mauri, M. (2024). Clustering to synthesize and scattering to reveal. Interactions and animations in the visualization of complex hierarchical data in Atlante Calvino. In N. Ceccarelli (Ed.), 2CO3 Communicating COMplexity (Vol. 1, pp. 186–194). Franco Angeli.

<https://series.francoangeli.it/index.php/oa/catalog/book/1274>

Scientific Publications 30+ among peer-reviewed papers and grey literature

Ceconello, M., **Elli, T.**, Lee, S., Markopoulos, P., & Pillan, M. (2023, October 9). Framing the change(s) in interaction design. *IASDR 2023: Life-Changing Design*. IASDR.
<https://doi.org/10.21606/iasdr.2023.887>

Spadini, E., Christen, A., Pallacci, V., **Elli, T.**, Benedetti, A., Maggetti, D., Mauri, M., & Péterman, S. (2023). Genetic networks: Data model and visualisations. In A. Baillot, W. Scholger, T. Tasovac, G. Vogeler, E. Raunig, M. Scholger, & E. Steiner (Eds.), *Digital Humanities 2023: Book of Abstracts* (pp. 319–321). Zentrum für Informationsmodellierung - Austrian Centre for Digital Humanities, University of Graz.
<https://doi.org/10.5281/ZENODO.7961822>

Elli, T., Bradley, A., Hinrichs, U., & Collins, C. (2022). Visualizing Stories of Sexual Harassment in the Academy: Community Empowerment through Qualitative Data. *Proceedings of DRS 2022*. Bilbao, Spain. ISBN: 978-1-91229-457-2. DOI:
<https://doi.org/10.21606/drs.2022.447>

Pallacci, V., Benedetti, A., **Elli, T.**, Spadini, E., Mauri, M., & Maggetti, D. (2022). Visualizing the genetic process of literary works [Text]. In F. Ciraci, G. Miglietta, & C. Gatto (Eds.), *Culture digitali. Intersezioni: Filosofia, arti, media*. (pp. 179–184). Alma Mater Studiorum - Università di Bologna. ISBN: 9788894253566. DOI:
<https://doi.org/10.6092/UNIBO/AMSACTA/6848>

Parigini, Margherita, & **Elli, Tommaso**. (2022). *The Shape of Doubt: Employing data visualization to inquiry stylistic features in the narrative works of Italo Calvino*. In DH Benelux 2022 - ReMIX: Creation and alteration in DH (hybrid), 1-3 June 2022. Belval. DOI:
<https://doi.org/10.5281/ZENODO.6594441>

Gobbo, B., **Elli, T.**, Hinrichs, U., & El-Assady, M. (2022). xai-primer.com—A Visual Ideation Space of Interactive Explainers. *CHI Conference on Human Factors in Computing Systems Extended Abstracts*, 1–4. New Orleans LA USA. ISBN: 978-1-4503-9156-6. DOI:
<https://doi.org/10.1145/3491101.3519880>

Mauri, M., Vantini, S., Gobbo, B., **Elli, T.**, Aversa, E., Benedetti, A., Briones Rojas, M. D. L. A., & Colombo, G. (2022). Making posters to understand statistics: Towards a didactical approach in communication design. *Proceedings of DRS 2022*. Bilbao, Spain. ISBN: 978-1-91229-457-2. DOI: <https://doi.org/10.21606/drs.2022.597>

Elli, T., Briones, A., Gobbo, B., Parigini, M., Giustetto, V., Cavalloro, V., & Mauri, M. (2021). Metaphors as Knowledge Activators in Data Visualizations: The case of the Archipelago of Calvino's literary works. *Proceedings of Cumulus Conference Roma 2021*. Roma. ISBN: 978-952-64-9004-5

Papile, F., Santi, R., Gobbo, B., **Elli, T.**, & Del Curto, B. (2021). Experiments on complex systems mapping around materials. *Proceedings of Cumulus Conference Roma 2021*. Roma. ISBN: 978-952-64-9004-5

Benedetti, A., **Elli, T.**, & Mauri, M. (2020). "DRAWING WITH CODE": THE EXPERIENCE OF TEACHING CREATIVE CODING AS A SKILL FOR COMMUNICATION DESIGNERS. *12th International Conference on Education and New Learning Technologies*, 3478–3488. ISBN: 978-84-09-17979-4. DOI: <https://doi.org/10.21125/edulearn.2020.0982>

Scientific Publications 30+ among peer-reviewed papers and grey literature

Elli, T., Bradley, A., Collins, C., Hinrichs, U., Hills, Z., & Kelsky, K. (2020). Tied in Knots: A Case Study on Anthropographic Data Visualization About Sexual Harassment in the Academy. *2020 IEEE VIS Arts Program (VISAP)*, 29–44. Salt Lake City, UT, USA. ISBN: 978-1-7281-8553-8. DOI: <https://doi.org/10.1109/VISAP51628.2020.00010>

Mauri, M., Elli, T., Caviglia, G., Uboldi, G., & Azzi, M. (2017). RAWGraphs: A Visualisation Platform to Create Open Outputs. *Proceedings of the 12th Biannual Conference on Italian SIGCHI Chapter*, 1–5. University of Cagliari: University of Cagliari. ISBN: 9781450352376. DOI: <https://doi.org/10.1145/3125571.3125585>

Elli, T., Moretti, G., Sprugnoli, R., Mauri, M., Uboldi, G., Tonelli, S., & Ciuccarelli, P. (2016). Visualisation Strategies for Comparing Political Ideas with the ORATIO platform. *Digital Humanities 2016. Conference Abstracts*. Jagiellonian University & Pedagogical University, Kraków. ISBN: 978-83-942760-3-4. URL: <http://dh2016.adho.org/abstracts/422>

8 Journal Articles Benedetti, A., Elli, T. (forthcoming 2025). "Designing counter-efficient artifacts: critical educational approaches in creative coding". *Interaction Design and Architecture(s) Journal - IxD&A*

Elli, T., Spagnoli, A., Iannilli, V. (2024). "Mapping Service-Based Retailing to Improve Sustainability Practices in the Fashion Industry" *Sustainability* 16, no. 17: 7543. <https://doi.org/10.3390/su16177543>

Elli, T. (2024). A platform-based inquiry on sustainable fashion and design in the Milanese landscape. *Fashion Highlight*, (3), 178–191. <https://doi.org/10.36253/fh-2709>

Elli, T. (2023). Supporting Literary Criticism with Data Visualization: Four Design Guidelines for Facilitating Interdisciplinary Collaborations. *Convergences - Journal of Research and Arts Education*, 16(32), 152–163. <https://doi.org/10.53681/c1514225187514391s.32.215>

Trocchianesi, R., & Elli, T. (2023). Design e Digital Humanities. Approcci interdisciplinari e casi studio progettuali nell'ambito dell'Information Visualization. *Rivista Di Ricerca e Didattica Digitale*, 1(3), 9–30. https://doi.org/10.53256/RRDD_230101

Elli, T., Benedetti, A., Pallacci, V., Spadini, E., Mauri, M. (2023). Designing network visualizations for genetic literary criticism. *Convergences - Journal of Research and Arts Education* (issn: 1646-9054), 16(31), 25–38. URL: <https://doi.org/10.53681/c1514225187514391s.31.176>

Gobbo, B., Briones Rojas, M. D. L. A., Aversa, E., Elli, T., Benedetti, A., Mauri, M., & Colombo, G. (2022). Staging and storing data sprint-based research results: A communication design approach. *Dígitos. Revista de Comunicación Digital*, 8, 87–108. ISSN: 2444-0132. DOI: <http://dx.doi.org/10.7203/drdcd.v1i8.241>

Bortoletti, F., Gobbo, B., Elli, T., Gerbino, G., & Ciuccarelli, P. (2018). Venezia, la 'Festa Mobile': Per un atlante in fieri. Luoghi, figure e forme della favola antica nel primo Rinascimento. *La Rivista Di Engramma*, 160, 1–10. Università Iuav di Venezia. ISBN: 8894840832. DOI: <https://doi.org/10.25432/1826-901X/2018.160.0006>

7 Book Chapters Bortoletti, F., Gerbino, G., Ciuccarelli, P., Gobbo, B., & Elli, T. (forthcoming 2025). FRIDA: A Multilevel Digital Atlas for the Ephemeral Renaissance, La Serenissima Venice 1450-1550. In R. El Khatib & C. Winter (Eds.), *New technologies and Renaissance studies IV: the changing shape of digital early modern studies*. Iter Press. ISBN: 978-1-64959-119-7

Scientific Publications 30+ among peer-reviewed papers and grey literature

Elli, T., Benedetti, A., Briones Rojas, M. D. L. A., Crespi, D., & Mauri, M. (forthcoming 2025). A visualization system based on Wikidata for supporting and monitoring the Wiki Loves Monuments Italian contest. Wikidata and Research, Florence, Italy.

Mauri, M., & Elli, T. (forthcoming 2025). Visualizing Wikidata: The RAWGraphs 2.0 approach. Wikidata and Research, Florence, Italy.

Elli, T. (2025). Role of design and opportunities for those between two worlds—From caregiver to designer. The value of design for Voluntary Organisations. In V. Arquilla & F. Caruso (Eds.), *Design & Autism* (p. 381). Maggioli Editore.
<https://www.maggiolieditore.it/design-autism.html>

Elli, T., Colombo, G., & Gobbo, B. (2024). Data, Algorithms and Otherness. The Erasure of the Other. In S. Zingale (Ed.), *Design Meets Alterity* (p. 232). FrancoAngeli.
<https://series.francoangeli.it/index.php/oa/catalog/view/1111/979/6277>

Fabro Cardoso, G., & Elli, T. (2023). Omnichannel Retail in Practice: A Look at Applied Solutions in the Fashion Industry. In V. M. Iannilli & A. Spagnoli (Eds.), *Design Dynamics. Navigating the new Complex Landscape of Omnichannel Fashion Retail*. Milano, FrancoAngeli. ISBN: 978-88-351-5737-3 <https://series.francoangeli.it/index.php/oa/catalog/book/1065>

Ciuccarelli, P., & Elli, T. (2019). Beyond Visualization. In H. Hotson & T. Wallnig (Eds.), *Reassembling the Republic of Letters in the Digital Age: Standards, Systems, Scholarship* (Vol. 1–1, pp. 299–314). Universitätsverlag Göttingen. ISBN: 978-3-86395-403-1. DOI: <http://dx.doi.org/10.17875/gup2019-1146>

2 Theses Elli, T. (2022). *Research through Visualization in Literary Criticism. Adaptations of data visualization to scholars' interpretive work* [PhD Dissertation]. Politecnico di Milano.
<http://hdl.handle.net/10589/183038>

Elli, T. (2015). *Oratio. Strumento visuale per il confronto del linguaggio politico* [Master Thesis]. Politecnico di Milano. <http://hdl.handle.net/10589/109601>

3 Grey Literature Elli, T., Martinelli, A., & Gigliotti, C. (forthcoming 2025). Il progetto «Cascina Cristina»: Dalla realtà all'opportunità. In R. Keller (Ed.), *I disturbi dello spettro dell'autismo in adolescenza e in età adulta* (pp. 569–573). Edizioni Erickson.

Elli, T., & Invernizzi, M. (2018a). Data visualization with RAWGraphs and AI to HTML. In Seminario de Visualización de Datos en Chile, F. Reyes, L. González, & W. Barne (Eds.), *Visdatos Santiago 2018: Primer seminario de visualización de datos en Chile* (pp. 82–83). Santiago de Chile. ISBN: 978-956-398-007-3

Elli, T., & Invernizzi, M. (2018b). Visualization in cartographic maps. In Seminario de Visualización de Datos en Chile, F. Reyes, L. González, & W. Barne (Eds.), *Visdatos Santiago 2018: Primer seminario de visualización de datos en Chile* (pp. 86–87). Santiago de Chile. ISBN: 978-956-398-007-3

International Conferences 11 Presenting or organizational roles

ACM Designing Interactive Systems '25 (DIS)

Funchal, Madeira (Portugal). 5-9 July 2025

Role: Associated Chair in the Pictorials track

Link: <https://dis.acm.org/2025/call-for-pictorials> - Archived: <https://bit.ly/4m2TpD8>

Sustainable Retail and Services Futures (DRS SIG meeting)

Design Department, Politecnico di Milano 14-15 May 2025

Role: Organizing Committee

Link: retail.experiencelab.com/drsfc-colloquium-committee - Archived: <https://bit.ly/3RZB6Ba>

Graphs & Networks in the Humanities

Università della Svizzera Italiana, Mendrisio, CH. 13-14 February 2025

Role: Presenter of the paper "Reimagining the "Archipelago of Names": Co-Design Strategies for Visualizing Literary Data in DH"

Link: <https://bit.ly/4kkjrjL> - Archived: <https://bit.ly/4da03Dy>

IASDR 2023 - Life-Changing Design

Politecnico di Milano. 09-13 Oct 2023

Role: Associated Chair for the track [Changing] Interactions

Link: <https://bit.ly/46h3JPD> - Archived: <https://archive.ph/6LuI0>

IEEE VISAP 2023

Melbourne (VIC), Australia. Oct 2023

Role: Design chair (remote commitment)

Link: <https://visap.net/2023/> - Archived: <https://archive.ph/bAMiP>

Visualizing Stories of Sexual Harassment in the Academy: Community Empowerment through Qualitative Data

Paper presentation at DRS2022. Track: Valuing the qualitative in design and data. Bilbao. 30 Jun 2022

Role: Presenter

Link: <https://bit.ly/3OodqCg> - Archived: <https://archive.ph/wip/SYdMw>

IEEE VISAP 2022

Oklahoma City, USA Oct 2022

Role: Design chair (remote commitment)

Link: <https://visap.net/2022> - Archived: <https://archive.ph/MjAzN>

Visualizing the genetic process of literary works

Paper presentation at AIUCD 2022 (with Pallacci, V.). Lecce. 2 Jun 2022

Role: Presenter

Link: <https://bit.ly/3RL3wxr> - Archived: <https://archive.ph/wip/Xi651>

Metaphors as Knowledge Activators in Data Visualizations

Design Culture (of) Languages: Aesthetics, Expression, Visual. Cumulus conference. Roma. 9 Jun 2021.

Role: Presenter

Link: <https://bit.ly/3r3eUZC> - Archived: <https://archive.md/oLZ5N>

Tied in Knots. A Case Study on Anthropographic Data Visualization About Sexual Harassment in the Academy

VISAP 2020, IEEE VIS 2021. 29 Oct 2020

Role: Presenter

Link: <https://visap.net/2020/program.html> - Archived: <https://archive.is/92MiA>

Visualisation Strategies for Comparing Political Ideas with the ORATIO platform

Digital Humanities 2016. 15 Jul 2016

Role: Presenter

Link: <https://bit.ly/3S4ijUb> - Archived: <https://archive.ph/0gQRn>

University Management

Feb 2024 – ongoing **Coordinator of the Course “Digital Design Studio,”
MSc in Digital and Interaction Design, Polimi**

Responsible for coordinating and delivering a UX research design studio focused evaluation and redesign of digital systems with both physical and screen-based touchpoints. Currently co-taught with Full Prof. Daniela Petrelli and Alessandro Quets (teaching assistant).

Dec 2024 – ongoing **Member of the Admission Committee (national and international)
for the MSc and Interaction Design, Polimi**

Evaluated applications for Master’s program access, which include applications from foreign students and Bachelor’s transfers from the same institution. The admission committee is composed of Prof. Fiammetta Costa, Dr. Tommaso Elli, Prof. Nicola Lopomo, Dr. Paolo Perego, and Prof. Davide Spallazzo.

Apr 2025 – ongoing **Member of the Scientific and Technical Committee
for MSc in Digital and Interaction Design, Polimi**

Appointed to the committee responsible for guiding strategic decisions of the Bachelor’s and Master’s programs in Design, with a focus on curriculum development and academic planning. The committee is composed of Prof. Davide Spallazzo, Dr. Paolo Perego, Prof. Fiammetta Costa, Dr. Tommaso Elli, Prof. Nicola Lopomo, Prof. Mariana Ciancia, Prof. Venere Ferraro, Prof. Maximiliano Romero, Prof. Elisa Giaccardi, Prof. Marco Ajovalasit.

Teaching Activity *9+ years of teaching experience with 10+ courses taught or co-taught,
including core curriculum ones*

University Courses
and Institutional Settings

Professor (coordinator)

Digital Design Studio (12 CFU)
MS in Digital and Interaction Design, Politecnico di Milano
Academic Years: 2024, 2025

Chair in the State Examination Committee, ITS

Appointed by: Ministero dell'Istruzione e del Merito (Ministry of Public Education)
Chaired examinations:
- Film Making: videos for Media (ID 27836)
- Strategic visual designer per la cultura e il territorio (ID 30159)
I-Crea Academy, Milan, Italy
March 2025

Professor

Visualizzazione per i saperi umanistici (3 CFU)
La Statale, Università degli studi di Milano
Academic Years: 2024

Teaching assistant

Fashion Retail Experience Design Studio (12 CFU)
MS in Design for the Fashion System, Politecnico di Milano
Academic Years: 2023

Professor

Course “Metodi e strumenti per la rappresentazione del progetto” (4 CFU)
BA in Progettazione Grafica e Comunicazione Visiva, ISIA Urbino
Academic Years: 2023

Teaching Activity *9+ years of teaching experience with 10+ courses taught or co-taught, including core curriculum ones*
Professor

Data Visualization Lab/Laboratorio di Visualizzazione Dati (3 CFU)

BS and MS in Comunicazione pubblica e d'impresa e BS in Comunicazione e società, La Statale, Università degli studi di Milano

Academic Years: 2023

Teaching assistant

Final Synthesis design studio "DensityDesign" (18 CFU)

Corso di Laurea Magistrale in Design della Comunicazione, Politecnico di Milano

Academic Years: 2016, 2017, 2018, 2020, 2021, 2022, 2023

Teaching assistant

Elective course "Creative Coding" (6 CFU)

Corso di Laurea in Design della Comunicazione, Politecnico di Milano

Academic Years: 2016, 2017, 2018, 2020, 2021, 2022, 2023

Instructor

Course "Doing Digital Methods" DM for social media research

Doctoral School SOAS University of London.

Dates: Jan 2022 - Mar 2022

Teaching assistant

Workshop "Data Walk" (docente esterno: Yanni Loukissas)

Corso di Laurea Magistrale in Design della Comunicazione, Politecnico di Milano

Academic Years: May 2017

Teaching assistant

Workshop "From Mind to Reality"

Polifactory, Politecnico di Milano

Academic Years: May 2016

Specializing masters
Instructor

User Interface Design (UI) – Executive Course

Lecture on Creative Coding

POLI.Design, Milan, Italy

Dates: May 2025

Instructor

Ai4Gov: Artificial Intelligence for Public Services

Lecture title: Interacting with data

POLI.Design, Milan, Italy

Dates: May 2025

Instructor

Design and Digital Technologies for the Intangible Cultural Heritage

Lecture title: Information Design and Data Visualization

POLI.Design, Milan, Italy

Dates: Jan 2025

Instructor

Data Visualization – Executive Course

Lecture on Information visualization and editorial workflow

POLI.Design, Milan, Italy

Dates: May 2024

Teaching Activity *9+ years of teaching experience with 10+ courses taught or co-taught, including core curriculum ones*

Instructor

Course “Information Designer and Data Visualization”

Scuola di formazione della Presidenza del Consiglio dei Ministri. Roma

Dates: May 2019, May 2021, Jan-Feb 2023

Instructor

Workshop “Visualization in cartographic maps”

Visdatos Santiago 2018: primer seminario de visualización de datos en Chile

Dates: Jan 2018

Instructor

Workshop “Data visualization with RAWGraphs and AI to HTML”

Visdatos Santiago 2018: primer seminario de visualización de datos en Chile

Dates: Jan 2018

Instructor

Course International Master in Business Analytics and Big Data

Graduate School of Business, Politecnico di Milano

Dates: Feb 2017

Research Projects *Key contributor in 10 long-term research projects and 20 short-term projects*

Main Research Projects **PNRR MUSA**

Developing an incubator of innovative projects aimed at fostering new culture-driven distribution and retail models exploiting design and cultural heritage aimed at regenerating the urban landscape

Mar 2023 – Dec 2025

data.wikilovesmonuments.it

A visualization platform to monitor the photographic coverage of Italian cultural heritage on Wikimedia projects. Design and development lead.

Mar 2022 – Oct 2022

Link: <https://data.wikilovesmonuments.it/> - Archived: <https://archive.ph/tlSSG>

Visualizing the genetic networks of Gustave Roud’s literary works

Representation of the creative process followed by Gustave Roud in the making of some of his most famous literary works (with Université de Lausanne)

Sep 2021 – Mar 2022

Link: <https://bit.ly/35SuYpT> - Archived: <https://archive.ph/7N3gT>

Algocount. Public Perception of Algorithms in Society:

Accounting for the Algorithmic Public Opinion

Design and implementation of PlacPlac, a digital platform to store and share data-sprint based research.

Sep 2021 – Jul 2022

Link: <https://bit.ly/3aYBcqI> - Archived: <https://archive.ph/vDK0U>

Atlante Calvino: literature and visualization

Literary criticism and information design, blended together for interpretation and visualization of Italo Calvino's work.

Sep 2017 – Jan 2021

Link: <https://atlantecalvino.unige.ch/> - Archived: <https://archive.ph/O7jEX>

Research Projects *Key contributor in 10 long-term research projects and 20 short-term projects*

RAWGraphs. A free and open source tool for data visualization

A design centered web-based application for data visualization

Sep 2016 – ongoing

Link: <https://bit.ly/3u9QQ9p> - Archived: <https://bit.ly/3u9QQ9p>
Academia is Tied in Knots

Visualizing the issue of sexual harassment in academia using qualitative data

Nov 2019 – Mar 2020

Link: <https://tiedinknots.io/> - Archived: <https://archive.ph/fVlcB>
Switzerland's Institutional Landscape 1933–1980

Visualizing historical inquiry on the topic of administrative detention using quantitative data

Jul 2017 – Mar 2018

Link: <http://bit.ly/2Kvq9mD> - Archived: <https://archive.ph/wip/kF3UZ>
The redesign of Six Degrees of Francis Bacon

"Re-design sprint" to improve the UI of the web portal aimed at the exploration of social networks from the past (with Cargerie Mellon University, Pittsburgh PA)

Feb 2017 – Jun 2017

Link: www.sixdegreesoffrancisbacon.com - Archived: <https://archive.ph/wip/cKdek>
Reassembling the Republic of Letters

Member of the COST Action IS1310. Organizer of members meetings (data sprint 2016 and 2017)

Jan 2016 – May 2018

Link: <https://bit.ly/3x1hnrr> - Archived: <https://archive.ph/wip/VTnMv>

20 Short-term projects
(data sprints, workshops,
minor projects, etc.)

Strengthening the Future of Cascina Cristina and Abilitiamo Autismo

Capacity Building Project (volunteer)

Funded by Fondazione Provinciale della Comunità Comasca

Oct 2024 – Ongoing

Gephi retreat 2024

A three-days event dedicated to the visualization of Louvain modularity fluctuations in visual network analysis.

16–18 Dec 2024

A World Made by Travel

Participated in the project as UI & Information Design expert. Project lead by Prof Giovanna Ceserani (Stanford University).

Nov 2023 – Jun 2024, Milan IT

Link: <https://aworldmadebytravel.org/>
Users' web-app for WikiLovesMonuments (Italy)

Participated as a volunteer in the ideation of the application for the WLM photo contest.

During the project I took part to virtual meetings giving advice on UI and data management.

The project follows a previous activity on the same topic (see above

"data.wikilovesmonuments.it).

May 2023 – Oct 2023, Milan IT

Link: <https://app.wikilovesmonuments.it/>

Research Projects *Key contributor in 10 long-term research projects and 20 short-term projects*

GLAMHack 2022

I worked in a team of researchers from different Swiss institutions on the project: Fonoteca Jukebox, a new way for visitors of the Swiss National Sound Archive to listen to the 500+ recordings of the Gramophone Collection

Nov 2022, Mendrisio CH

Link: <http://bit.ly/3YwjfTC> - Archived: <https://archive.ph/h3SfV>

Design ThinkTank – Digital Care

I worked in a team of researchers from PoliMi's Design Department to produce a review of scientific literature about emerging topics at the intersections between Personal Care, Digital Technologies, and Data.

Feb-June 2022

Gephi code sustainability retreat 2022 ("Gephi Week")

A one-week event dedicated to the improvement of Gephi, an open-source application for visual network analysis. My work mainly focused on the exploration of visualization opportunities for the explanation of community detection algorithms.

29 Aug – 02 Sep 2022

Link: <https://bit.ly/48y83fu> - Archived: <https://archive.is/oUOhI>

Tracing the genealogy and change of TikTok audio memes

DMI winter school: Data critique and platform dependencies: How to study social media data?

10–14 Jan 2022

Link: <https://bit.ly/3v3eKDI> - Archived: <https://archive.ph/iAALM>

The spread of polarization through opposite infodemic hashtags on TikTok's For You page

Algocount Project: Data Sprint

18–22 Jan, 2021

Link: <https://bit.ly/3cyxrc1> - Archive: <https://archive.ph/qC9MY>

Conspiracists Also Viewed: 'Problematic' Networks of Recommendation on Amazon.com

DMI winter school: Bias in content recommendation and moderation [Role of facilitator]

4–8 Jan 2021

Link: <https://bit.ly/3cDJh4M> - Archive: <https://archive.ph/WXE8t>

Cartoon Politics: How Trump's Tweets Generate Memes

DMI winter school: Post-truth Empiricism: On the new epistemologies and research affordances of social media

7–11 Jan 2019

Link: <https://bit.ly/3PuMGRV> - Archive: <https://archive.ph/1lIQj>

Mapping Multiverse Alternative Facts In the Age of Post-truth

DMI summer school: Retraining the machine: Addressing algorithmic bias

Digital Methods Summer School

2–13 Jul 2018

Link: <https://bit.ly/3J4ODlx> - Archive: <https://archive.ph/1udDW>

Visualising Ambiguity Workshop

Visualizing ambiguities of social networks data for new media research (with Taantlab, Aalborg University, Copenhagen)

Dec 2017

Research Projects *Key contributor in 10 long-term research projects and 20 short-term projects*

Is this Open Data Portal accessible?

DMI summer school: Get the Picture. Digital Methods for Visual Research
26 Jun – 7 Jul 2017

Link: <https://bit.ly/3yZFdDp> - Archive: <https://archive.ph/9PvJu>

A Field Guide to “Fake News” and Other Information Disorders

Organized by Public Data Lab with support from First Draft.

Mar 2017 – Apr 2017

Link: <https://bit.ly/3OqcxSL> - Archive: <https://archive.ph/wip/83Oj3>

The #WorldBot 2014 - The #Good, the #Bad and the #Ugly

DMI Summer School: On Geolocation: Remote Event Analysis

23 June – 4 July 2014

Link: <https://bit.ly/3OwHrO5> - Archive: <https://archive.ph/wip/ft1EW>

Privacy and Twitter: (Geo)locating the Debate

DMI Summer School: On Geolocation: Remote Event Analysis

23 June – 4 July 2014

Link: <https://bit.ly/3Ot5a3U> - Archive: <https://archive.ph/wip/s2CNX>

Talks *15+ Invited talks, Seminars, or Guest Lectures*

Organizer of the scientific seminar “Design and Autism”

Municipality of Cantù, Italy. 5 April 2025

Presenters: A. Bechini (Abilitiamo), V. Arquilla and F. Caruso (Politecnico di Milano), L. Casartelli (IRCCS E. Medea and Bluemers), N. Fumagalli (Università di Milano)

Design e Autismo al Politecnico di Milano: Connessioni, Esperienze e Collaborazioni

Presentation of “Cascina Cristina di Abilitiamo Autismo)

Politecnico di Milano. 2 aprile 2025

MUSA General Meeting: DAL PROGETTO ALL'ECOSISTEMA

Presentation of “Envisioning sustainable retail solutions: from theory to practice through design-driven activities”.

Università La Statale di Milano. 9 Dec 2024

On Data and Design – Episode #28 “Data Visualization Tools”

Presentation of RAWGraphs in the podcast directed by Darjan Hil. 19 Sep 2024

Archived 1: <https://archive.is/hBoTG> - Archived 2: <https://archive.is/TKFrm>

Cascina Cristina: una comunità abilitante ad ampio spettro

Relatori: Tommaso Elli (socio fondatore e membro del CDA di Abilitiamo) e Matteo Maccione (direttore U.O. Cascina Cristina). Convegno ANGSA Lombardia. ESISTERE nello spettro autistico:

oggi, domani ... dopo di noi. Scientific director: Dott.ssa Cristina Panisi. 24 feb 2024

From spreadsheet to visualization: presentazione di Raw graphs

Guest lecture in Padricelli G. M., *Le nuove sfide del digitale per*

la ricerca sociale: Dai virtual ai digital methods. Dottorato in

scienze sociali e statistiche, Università di Napoli Federico II. 06 Dec 2023

Talks 15+ Invited talks, Seminars, or Guest Lectures

Visualizzazione dati e natura interpretativa delle materie umanistiche, due casi studio progettuali: "Reti genetiche di Gustave Roud" e "Atlante Calvino"

Guest lecture in Trocchianesi R., *Museologia e museografia digitali del patrimonio culturale materiale e immateriale*. Master Digital Humanities – Università Statale di Milan. 10 Jun 2023

Case study: Abilitiamo Autismo - service design for autism

Guest lecture in Capolongo, S. & Bresciani, S., *Designing and Testing for Inclusivity*.

Open lectures cycle: Learning to design for all. How inclusion and decision aiding improve products, services and spaces. 14 March 2023

Data-driven community engagement per Wiki Loves Monuments

Presentation of data.wikilovesmonuments.it at ItWikiCon 2022

Link: <https://bit.ly/3CkQD6n> - Archived: <https://archive.ph/wip/a7dWV>

Towards Setting your position using literature and data

Workshop at PhD Day DRS2022 (with Gobbo, B.). Bilbao. 25 Jun 2022.

Link: <https://bit.ly/3ySaA2o> - Archived: <https://archive.ph/Wluag>

Visualizzazioni dati e natura interpretativa delle materie umanistiche

Guest lecture in Trocchianesi R., *Museologia e museografia digitali del patrimonio culturale materiale e immateriale*. UniMI. 28 May 2022

Research through Design and Research through Visualization

Guest lecture in Ciuccarelli, P., *Seminars for PhD Students in Design*.

College of Arts, Media and Design. Northeastern University. 6 Apr 2022

Design Process of Roud's Genetic Networks

Talk in De la création à l'édition. Les manuscrits modernes et contemporains. Université de Genève. 18 Feb 2022. Link: <https://bit.ly/3LGyiUm> - Archived: <https://archive.is/IsbiY>

From Rawgraphs to Atlante Calvino

Talk in COMMunicating COMplexity. Università di Sassari. 13 Nov 2021

Link: <https://bit.ly/3LJeDmw> - Archived: <https://archive.md/0zu0n>

Visualizing Sexual Harassment Testimonies: Academia is Tied in Knots

Talk in Visualization for Social Good, IEEE VIS 2021. 25 Oct 2021

Link: <https://vis4good.github.io/> - Archived: <https://archive.ph/4KnKo>

Open Data Visualizations with RAWGraphs 2.0

Workshop in Information+ Conference 2021. 1 Oct 2021

Link: <https://bit.ly/3r2WtED> - Archived: <https://archive.ph/5bIU8>

Visualizzare il dato

Storie di Dati. Ciclo di seminari e workshop a cura di digitalwhomanities. 29 May 2021

Link: <https://bit.ly/3j7btNb> - Archived: <https://archive.is/g4rMb>

Awards 10 among prizes or honourable mentions

"Test of Time" Award: RAWGraphs 2.0

RAWGraphs has received the "Test of Time" Award at the 2024 Information is Beautiful Awards. This award recognizes works that have had a lasting impact since their creation June 2025

Link: <http://bit.ly/4ILnu9O> - Archived: <https://archive.is/MwOTL>

Awards 10 among prizes or honourable mentions

RAWGraphs 2.0

Eccellenze Lombarde – Riconoscimento Design per la Comunicazione
All'interno dei prodotti e dei progetti selezionati ADI Design Index 2021
15 Dec 2023

Atlante Calvino. Letteratura e Visualizzazione

Eccellenze Lombarde – Riconoscimento Design per la Comunicazione
All'interno dei prodotti e dei progetti selezionati ADI Design Index 2021
15 Dec 2023

Atlante Calvino. Letteratura e visualizzazione

Menzione d'onore ADI Compasso D'Oro XXVII (honourable mention ADI's Compasso d'Oro XXVII)

20 Jun 2022

Link: <https://bit.ly/3POB7o6> - Archived: <https://archive.ph/wip/5OJFL>

Atlante Calvino. Letteratura e visualizzazione

ADI Design Index 2021 – Category: Design per la comunicazione

27 Oct 2021

Link: https://www.adi-design.org/2021_c00779 - Archived: <https://archive.ph/Y2H8w>

RAWGraphs 2.0

ADI Design Index 2021 - Category: Design per la comunicazione

27 Oct 2021

Link: https://www.adi-design.org/2021_c00827 - Archived: <https://archive.ph/C0MZj>

The Archipelago Of Names Quoted By Italo Calvino (Atlante Calvino Project)

Shortlist of Kantar Information is Beautiful Award

2019

Link: <http://bit.ly/3iLuDfE> - Archive: <https://archive.ph/D36ga>

Switzerland's institutional landscape 1933–1980

Shortlist of Kantar Information is Beautiful Award

2019

Link: <http://bit.ly/3OEMosV> - Archive: <https://archive.ph/qOebv>

Switzerland's institutional landscape 1933–1980

EADH projects repository

2018

Link: <https://bit.ly/37idqnk> - Archive: <https://archive.ph/dddje>

DensityDesign Research Lab "Best Studio" award

Kantar Information is Beautiful Award

Nov 2017

Link: <https://bit.ly/3x4yVms> - Archived: <https://archive.ph/bgm5t>

Personal Skills

Mother tongue(s) Italian

Other language(s) English C1 (reading, writing, speaking)

German A1 (basic level, [Busuu certificate](#))

Personal Skills

- Communication skills* Excellent communication skills acquired in my work as design researcher, teaching assistant, and non-profit board member.
- Managerial skills* Excellent organizational and managerial skills acquired in the coordination of design research projects.
- Research Related skills* Teaching and professional experience in: Communication Design, Information Design, Data Visualization, Creative Coding, Digital Methods, Web Development
Scientific writing
Research design and planning
Project planning and management
- Digital skills* Adobe CC Suite (Photoshop, Illustrator, InDesign, XD, Lightroom, Premiere)
UI design applications (Figma, Sketch, Penpot)
Visual Network analysis (Gephi)
Data visualization tools (RAWGraphs, Tableau, QGIS, Open Refine)
Web programming/markup languages: HTML, CSS, JavaScript (Node.js, React, D3.js, P5.js, PIXI.js, ObservableHQ)
Version control (Git, GitHub)
Python (basic)
Digital fabrication and prototyping (basic)
Fast learner of emerging technologies
- Other skills* Management of non-profit organizations (abilitiamo.org)
Visual communication for non-profit organizations
- Driving licence* A and B categories