PERSONAL INFORMATION   Tommaso Elli

JOB APPLIED FOR
POSITION
PREFERRED JOB
STUDIES APPLIED FOR
PERSONAL STATEMENT

An information designer, design researcher and front-end developer working across data, information visualization, digital humanities, and creative coding. I also teach data visualization techniques and creative coding to designers.

WORK EXPERIENCE

Feb 2022 - Ongoing

Post-doc researcher
DensityDesign Research Lab, Dipartimento di Design, Politecnico di Milano

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

Business or sector Visualization Research

Oct 2019 – Apr 2020

Visiting Researcher
VIALAB, Faculty of Science, Ontario Tech University

▪ Management of a research project about the visualization of sensitive and qualitative data

Business or sector Visualization Research

Jan 2016 – Oct 2017

Research Assistant (assegnista di ricerca)
DensityDesign Research Lab, Dipartimento di Design, Politecnico di Milano

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

Business or sector Visualization Research

Sep 2015 – Dec 2015

Technician Assistant
WEWORK Fablab, Enaip Factory, Cantù

▪ Digital fabrication, design plus development of products prototypes

Business or sector Digital Fabrication

Jan 2015 – Apr 2015

Digital Designer (internship)
FUD Factory SRL, Milan

▪ Design of communication design artifacts for brands

Business or sector Communication Design, Branding

Mar 2014 – Jun 2014

Information Designer (internship)
DensityDesign Research Lab, Dipartimento di Design, Politecnico di Milano

▪ Design of data visualizations

Business or sector Academic Research in Design

Sep 2011 – Oct 2012

Web Designer
JET SRL, Seregno

▪ Design and development of websites for small local companies

Business or sector Web Design

EDUCATION AND TRAINING

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

Scuola di Dottorato, Politecnico di Milano

▪ Developed theories for designing visualizations for literary criticism.
  Dissertation title *Research through Visualization in Literary Criticism, Adaptating Data Visualization to Scholars' Interpretive Work*
▪ Designed and developed most of the visualizations of atlantecalvino.unige.ch

Oct 2019 – Apr 2020 **Visiting Researcher**

VIALAB, Faculty of Science, Ontario Tech University

▪ Developed theories for designing visualizations of qualitative and highly sensitive data
▪ Designed and developed the visualization on the topic of sexual harassment in university entitled The Academia is Tied in Knots (tiedinknots.io)

Oct 2019 **Doctoral Colloquium**

IEEE VIS 2019 - Vancouver

▪ Presented advancements of doctoral research to a panel of experts in visualization

Oct 2012 – Jul 2015 **Master Degree in Communication Design – 110L** EQF level 7

Scuola del Design, Politecnico di Milano

▪ 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

Scuola del Design, Politecnico di Milano

▪ Acquired skills in creation of visual identity, typography and conduction of graphical projects.

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

Liceo scientifico Galileo Galilei, Erba

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
English C1	C1	C1	C1	C1

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
Common European Framework of Reference for Languages

Communication skills Excellent communication skills acquired in my work as design researcher and teaching assistant.

Organisational / managerial skills Excellent organizational and managerial skills acquired in the coordination of research projects about visualization for digital humanities.

Job-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

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient	Proficient	Independent	Basic	Proficient

Levels: Basic user - Independent user - Proficient user
DIGITAL COMPETENCES - SELF-ASSESSMENT GRID

- [proficient] Adobe CC Suite (Photoshop, Illustrator, InDesign, XD, Lightroom, Premiere)
- [proficient] UI design applications (Figma, Sketch)
- [proficient] Visual Network analysis (Gephi)
- [proficient] Data visualization tools (RAWGraphs, Tableau)
- [proficient] Data wrangling (Open Refine)
- [proficient] Web programming/markup languages: HTML, CSS, JavaScript (Node.js, React, D3.js, P5.js, PIXI.js, ObservableHQ)
- [basic] Python

Other skills
- [independent] Management of volunteering organization (abilitiamo.org)
- [proficient] Visual communication for volunteering organization

Driving licence

A, B

ADDITIONAL INFORMATION

Publications: Conference Papers

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. Ciracì, 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. 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

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

Publications: journal articles

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

Publications: book sections

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

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

Publications: theses

Elli, T. (2022). *Research through Visualization in Literary Criticism. Adaptations of data visualization to scholars' interpretive work* [Doctoral 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

Seminars

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/Wluae

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*. 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/5blU8

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

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

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

Visualizing the genetic process of literary works
Paper presentation at AIUCD 2022 (with Pallacci, V.). Lecce. 2 Jun 2022
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. 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
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
Link: https://bit.ly/3S4ijUb - Archived: https://archive.ph/0gQRn

Taught courses and workshops

Teaching assistant
Final synthesis design studio "DensityDesign" (18CFU)
Corso di Laurea Magistrale in Design della Comunicazione, Politecnico di Milano
Academic Years: 2016, 2017, 2018, 2020, 2021, 2022

Teaching assistant
Elective course "Creative Coding" (6CFU)
Corso di Laurea in Design della Comunicazione, Politecnico di Milano
Academic Years: 2016, 2017, 2018, 2020, 2021, 2022

Lecturer
Course "Doing Digital Methods" DM for social media research
Doctoral School SOAS University of London.
Jan 2022 - Mar 2022

Lecturer
Course "Information Designer and Data Visualization"
Scuola di formazione della Presidenza del Consiglio dei Ministri. Roma
May 2019 e May 2021

Lecturer
Workshop "Visualization in cartographic maps"
Visdatos Santiago 2018: primer seminario de visualización de datos en Chile
Jan 2018

Lecturer
Workshop "Data visualization with RAWGraphs and AI to HTML"
Visdatos Santiago 2018: primer seminario de visualización de datos en Chile
Jan 2018

Teaching assistant
Workshop "Data Walk" (docente esterno: Yanni Loukissas)
Corso di Laurea Magistrale in Design della Comunicazione, Politecnico di Milano
May 2017

Lecturer
Course International Master in Business Analytics and Big Data
Graduate School of Business, Politecnico di Milano
Feb 2017

Teaching assistant
Workshop "From Mind to Reality"
Polifactory, Politecnico di Milano
May 2016

Research projects: main projects

data.wikilovesmonuments.it
A visualization platform to monitor the photographic coverage of Italian cultural heritage on Wikimedia projects.
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/3aYBcql - 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

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/fVJcB

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

Visualising Ambiguity Workshop
Visualizing ambiguities of social networks data for new media research
(with Taantlab, Aalborg University, Copenhagen)
Dec 2017

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 Cargergie 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

Research projects:
data sprints and workshops

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/3ExmkvW - Archived: https://archive.ph/Rie2g

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/3v3eKDJ - 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/1lJQj

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

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/3OwHrQ5 - 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

Prizes and honourable mentions

Atlante Calvino. Letteratura e visualizzazione
Menzione d'onore ADI Compasso D'Oro XXVII (honourable mention ADI'sCompasso d'Oro XXVII)
ADI Design Index 2021 – Category: Design per la comunicazione
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

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

ANNEXES

n/a

Personal information

I authorize the handling of personal information in this curriculum, according to D.Lgs n. 196/03 and following modifications and Regulations EU 679/2016 (General Regulations concerning Data Protection or GRDP) and art. 7 of University Regulations concerning protection of personal information.

I authorize, according to D.lgs 14/03/2013 n. 33 concerning transparency, in case of conferment of the position and of the fellowship, the publication of this curriculum in the web site of Università degli Studi di Milano in the section "Amministrazione trasparente", "Consulenti e collaboratori".

Date

10 October 2022

Signature