



FRANCESCA PADOVANI

CURRICULUM VITAE



Nationality/ citizenship / **Italy**
Via Mameli, 19, 37126 VERONA (VR)
Driving licence / **B**

ID / **5152094** updated on 20/03/25

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FOREIGN LANGUAGE SKILLS

MOTHER TONGUE(S): **Italian**



ENGLISH EXCELLENT	C1	C1	C1	C1	C1
FRENCH GOOD	B1	B2	C1	B2	B1
SPANISH LIMITED	A2	A2	A2	A2	A2

DIGITAL COMPETENCES

DigComp

Information and data literacy **Proficient user**

Communication and collaboration

Proficient user

Digital content creation **Independent user**

Safety **Independent user**

Problem solving **Independent user**

EXPECTATIONS AND FEATURES OF THE DESIRED JOB

INTENTION TO CONTINUE STUDIES: **Yes** /
Doctoral studies

ECONOMIC SECTOR: **1.** recruitment and
personnel selection / **2.** education,
training, research and development / **3.**
computer science, data processing and
acquisition

CAREER FIELD: **1.** R&D and patents / **2.**
Engineering and design / **3.** Information
systems, EDP

DESIRED JOB: **NLP Researcher**

PREFERRED DISTRICT TO WORK IN: **1.**
ABROAD / **2.** ABROAD

AVAILABILITY FOR BUSINESS TRAVELS:
Yes, including relocation

AVAILABILITY TO RELOCATE ABROAD:
Yes, even in non-European countries



WORK EXPERIENCES

Data Scientist FINSIENCE SPA

Computer science, data
processing and acquisition
MILANO (MI)
08/2023 - 08/2024

Main activities and responsibilities: I handle comprehensive data management for the company Finscience. This includes monitoring both incoming and outgoing data flows, managing the database both locally and on the cloud (Google Cloud Platform), and deploying our processes in collaboration with the team of engineers. The company is specialized in applying Artificial Intelligence to financially relevant topics, particularly those related to sustainability and climate change. Thus, through a pipeline that includes various NLP algorithms (such as translation, summarization, clustering, topic modeling) and proprietary metric calculations, we offer specific services to our clients. Employed as: office worker - fixed-length contract | Company sector: Engineering and design

Data Scientist INTWIG

Consultancy (management,
legal, accounting, ...)
BERGAMO (BG)
03/2023 - 08/2023

Main activities and responsibilities: Hired at the intersection between the Research team and the Data Analysis team, I was responsible for DESK analysis and drafting papers on various topics related to the labour market and its present trajectories, based on the requests of our clients. I programmed surveys on LimeSurvey that were then used by our partner panelists to collect data from the necessary population pool. I analyzed survey results using NLP algorithms. I managed data in our database, created data analysis workflows with the support of Alteryx software, and developed interactive dashboards using Tableau. Additionally, I handled the deployment of web applications using Python libraries.

Employed as: other - indeterminate length contract | Company sector: Organization

NLP (Natural Language Processing) Researcher CSL SONY PARIS

Education, training,
research and development
PARIGI (FRANCE)
09/2022 - 03/2023

Main activities and responsibilities: The macro-area of research in which my work fits is that of Artificial Intelligence applied in the therapeutic and educational fields. This project aims to develop an automatic text simplification model, to be integrated into an existing interface, to help and support school-age individuals and young adults with reading problems in the text comprehension process. The ultimate goal is to support and back up the speech therapists' rehabilitation team during the therapy period.

Acquired skills and achieved objectives: Skills with Deep Learning Python libraries - PyTorch, HuggingFace

Skills with NLP Python libraries - spacy, nltk, gensim

CSS/HTML

Version control system on GitHub

Thesis writing on Latex

Using GPUs

Employed as: intern/trainee - undergraduate internship | Company sector: R&D and patents

Active Member ASSOCIAZIONE RIME

TRIESTE (TS)
09/2019 - 12/2022

Main activities and responsibilities: Rime deals with social promotion and active citizenship. It operates in the area of Trieste and in the province of Friuli Venezia Giulia. Volunteer activities | Company sector: Organization

Mediator
OPERA UNIVERSITARIA DI TRENTO

Other services
TRENTO (TN)
01/2022 - 06/2022

Main activities and responsibilities: Employed in the mediation office of the University Opera of Trento. Partial collaboration program 150 hours. I dealt with mediating problematic situations in the environment and context of the SanbàPolis student residence.

Employed as: office worker - consulting/collaboration | Company sector: Organization

Research Assistant
SISSA - SCUOLA INTERNAZIONALE SUPERIORE DI STUDI AVANZATI

TRIESTE (TS)
09/2019 - 09/2021

Main activities and responsibilities: Supporting a postdoc of the Language, Learning and Reading Lab in the design and programming of an experiment on the elaboration of compound words of the Italian language.

Employed as: intern/trainee - consulting/collaboration

Undergraduate Internship
SISSA

Education, training, research and development
TRIESTE (TS)
03/2019 - 06/2019

Main activities and responsibilities: Technical organization of the experimental sessions, testing of children and adults, scoring of data and analysis of data obtained.

Employed as: intern/trainee - undergraduate internship



ACADEMIC STUDIES

PHD
2024 - 2028
ONGOING STUDIES
NETHERLANDS

University of Groningen
Faculty: Faculty of Arts
Center for Language and Cognition
Expected graduation date: 2028

MASTER'S DEGREE
2020 - 2023
CERTIFIED TITLE



UNIVERSITÀ DI TRENTO

Università degli Studi di TRENTO
Dipartimento di Sociologia e Ricerca Sociale
Data Science
LM-91 - 2nd level degree in Technologies and methods for the information society
Dissertation/thesis title: AUTOMATIC TEXT SIMPLIFICATION FOR ITALIAN POOR READERS AND COMPREHENDERS | Thesis supervisor: BERNARDI RAFFAELLA
Official duration: 2 years
Final degree mark: **110/110**
Graduation date: 08/03/2023

BACHELOR'S DEGREE
2017 - 2020
CERTIFIED TITLE



UNIVERSITÀ DEGLI STUDI DI TRIESTE

Università degli Studi di TRIESTE
Dipartimento di Scienze della Vita
SCIENZE E TECNICHE PSICOLOGICHE
L-24 - 1st level degree in Psychology
Dissertation/thesis title: La rappresentazione dei composti nominali Verbo-Nome e Nome-Nome nel lessico mentale. Due studi con pazienti afasici | Thesis supervisor: FRANZON FRANCESCA | Dissertation/thesis keywords: Psicolinguistica Composti Neuropsicologia Afasia Lessico mentale
Official duration: 3 years
Final degree mark: **110/110 cum laude**
Graduation date: 29/07/2020

CLASSICAL CERTIFICATE
2017

Classical High School
SCIPIONE MAFFEI,
School-leaving examination mark: **90/100**
Kind of secondary school diploma: Italian secondary school diploma
Kind of secondary school attended: Public school



OTHER POSTGRADUATE STUDIES

2020

Data Science Summer School
Università degli Studi di TRENTO
I completed this Summer School in the summer before enrolling to

the Master Degree succeeding in the following modules:

MODULE 1: MATHEMATICS & STATISTICS (Hours 18, 3 CFU, (MAT/02) Title: Linear algebra

MODULE 2: COMPUTER SCIENCE (Hours 18, 3 CFU, INF/01) Title: Foundations of Programming in Python

MODULE 4: MATHEMATICS & STATISTICS (Hours 18, 3 CFU, (SECS-S/01) Title: Introduction to Statistics

MODULE 5: COMPUTER SCIENCE (Hours 18, 3 CFU, INF/01) Title: Foundations of Algorithms in Python



INFORMATION TECHNOLOGY SKILLS

OFFICE AUTOMATION

Spreadsheets: (Advanced)

APPLICATION SOFTWARE

Statistical analysis: R (Intermediate)

COMPUTER PROGRAMMING

Huggingface (Intermediate) | **Development Models:** Pytorch (Intermediate) | **Markup languages:** CSS , HTML , LaTeX (Advanced) | **Programming languages:** Julia (Foundation) , Python (Advanced) , SQL (Intermediate)

DATA MANAGEMENT

Big Data: Apache Airflow (Foundation) , Apache Spark , BigQuery (Intermediate) | **DBMS:** MongoDB , Snowflake Cloud Data Warehouse (Foundation)

GRAPHICS AND MULTIMEDIA

(Foundation)



STUDIES AND EXPERIENCES ABROAD

FRANCE 2022

Personal initiative (Lavoro in azienda agricola)
Place: **France** | Language: French | Duration: 1 (months)

NETHERLANDS 2018

European Union program (Erasmus Program)
Place: **PAESI BASSI/OLANDA (Netherlands)** | Language: English | Duration: 6 (months)
I did my Erasmus in the Netherlands from August 2018 to February 2019.



EVENTS / EXHIBITIONS

PROJECT 2023

Formazione Co-workers
I participate as a co-worker in the Baleno House in Verona, and among the various personalities in the group, a strong need has emerged to explore topics related to artificial intelligence, the use of ChatGPT in an appropriate way to facilitate certain aspects of one's work, and the use of the Python language. Since I am the most proficient person in the field, I am organizing a series of training meetings on the subject in order to give tools for employing the new technologies in daily life.
Verona
www.balenosanzeno.it/

PROJECT 2022

Be Positive (We Care)
Trieste
associazionerime.wordpress.com/

CONTRIBUTION 2021

Campagna per la cittadinanza: Noise - armi di distrazione di massa
Together with other members of the Trieste-based RIME association I organized a group of 5 online meetings on the subject of digitalization, social media, hate speech and artificial intelligence. The meetings were held in the months between March and April 2021.



CONFERENCES AND SEMINARS

WORKSHOPS

29/05/2023

Lectures on Computational Linguistics, AILC, Pisa
I presented my student work at the AILC Lectures (2023 Edition). The Lectures are a yearly initiative of the Italian Association of Computational Linguistics aimed at training in the field of Computational Linguistics, and are the result of a close collaboration with high-level training in the Universities, in particular with the Doctoral Schools, in order to guarantee a high level of quality in the educational offer.
www.ai-lc.it/en/lectures-2/

CONVENTIONS

25/09/2019

Trieste Next, Trieste
Character: Volontaria addetta agli stand



PUBLICATIONS

PRESENTATION

2025

Francesca Padovani, Jaap Jumelet, Yevgen Matusevich, Arianna Bisazza, What is the real benefit of using Child Directed Language for Language Modeling?

PRESENTATION

2023

Francesca Padovani, Daniele Nardi, Martina Galletti, Automatic Text Simplification for Italian Poor Readers and Comprehenders
I presented my Poster at the end of a student session during the Lectures on Computational Linguistics organized by the Italian Association of Computational Linguistics last May in Pisa.
linktr.ee/francescapadovani98?utm_source=linktre...

JOURNAL ARTICLES

2023

Francesca Padovani, Caterina Marchesi, Eleonora Pasqua, Daniele Nardi, Martina Galletti, Automatic Text Simplification with LLMs: A Comparative Study in Italian for Children with Language Disorders
Review: Proceedings of the 13th Workshop on Natural Language Processing for Computer Ass
The output of this article is three-fold. We first built a new enriched corpus of parallel complex-simple sentences for Italian, which we release as open access for future benchmarks. Secondly, we fine-tuned a transformer-based encoder-decoder model inspired by the state-of-the-art available for English. Finally, we attempted to parameterise grammatical text features to control sentence-to-sentence simplifications with the goal of making them adaptive for a specific target population.

CONFERENCE PROCEEDINGS

2023

Martina Galletti, Emanuela Pasqua, Francesca Bianchi, Manuela Calanca, Francesca Padovani, Daniele Nardi, Donatella Tomauioli, A Reading Comprehension Interface for Students with Learning Disorders
Organization: Paper accepted for ICMI 2023 MIIE
In this paper, we introduce an Natural Language Processing (NLP)-powered reading comprehension interface to explore the potential of modern NLP techniques in hybrid therapeutic practices, aiming to make the rehabilitation of text comprehension difficulties more accessible, automatic, multi-modal, and truly inclusive for students with special educational needs and disabilities in presence or at a distance.

JOURNAL ARTICLES

2022

AuBuchon, Angela M; Elliott, Emily M; Morey, Candice C; Jarrold, Christopher; Cowan, Nelson; Adams, Eryn J; Attwood, Meg; Bayram, Büsra; Blakstvedt, Taran Y; Büttner, Gerhard; Castelain, Thomas; Cave, Shari; Crepaldi, Davide; Fredriksen, Eivor; Glass, Bret A; Guitard, Dominic; Hoehl, Stefanie; Hosch, Alexis; Jeanneret, Stéphanie; Joseph, Tanya N; Koch, Christopher; Lelonkiewicz,

Jaroslav R; Meissner, Grace; Mendenhall, Whitney; Moreau, David; Ostermann, Thomas; Özdogru; Padovani, Francesca, Lexical Access Speed and the Development of Phonological Recoding during Immediate Serial Recall

Review: Journal of Cognition and Development, 23(5):624-643.
DOI: <https://doi.org/10.10>

Publisher: Taylor & Francis

A recent Registered Replication Report (RRR) of the development of verbal rehearsal during serial recall revealed that children verbalized at younger ages than previously thought, but did not identify sources of individual differences. Here, we use mediation analysis to reanalyze data from the 934 children ranging from 5 to 10 years old from the RRR for that purpose.

www.tandfonline.com/doi/full/10.1080/15248372.2...

JOURNAL ARTICLES

2021

E.M. Elliott, C.C. Morey, A.M. AuBuchon, N. Cowan, C. Jarrold, E. Adams, M. Attwood, B. Bayram, S. Beeler-Duden, T.Y. Blakstvedt, G. Büttner, T. Castelain, S. Cave, Crepaldi, D., E. Fredriksen, B. Glass, A. Graves, D. Guitard, S. Hoehl, A. Hosch, S. Jeanneret, T.N. Joseph, C. Koch, J.R. Lelonkiewicz, G. Lupyan, A. McDonald, G. Meissner, W. Mendenhall, D. Moreau, T. Ostermann, T. Özdogru, F. Padovani, S. Poloczek, J.P. Röer, C. Schonberg, C.K. Tamnes, M.J. Tomasik, B. Valentini et al., Multi-lab direct replication of Flavell, Beach and Chinsky (1966): Spontaneous verbal rehearsal in a memory task as a function of age

Review: Advances in Methods and Practices in Psychological Science

osf.io/pn4rk/



ADDITIONAL INFORMATION

Github Profile: <https://github.com/Francesca-Padovani>