Andrea Pedrotti

Date of birth: ▮▮▮▮▮▮ | **Nationality:** Italian | **Phone number:**

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EDUCATION AND TRAINING

31/10/2020 – CURRENT Pisa, Italy
DOCTOR OF PHILOSOPHY (PHD) IN COMPUTER SCIENCE (DOTTORATO IN INFORMATICA)
Università degli Studi di Pisa

Main research interests:
- Natural Language Processing
- Multiltingual Embeddings
- Transfer Learning
- Multimodal Deep Learning

Level in EQF EQF level 8

24/09/2017 – 29/04/2020 Pisa, Italy
MASTER OF SCIENCE IN DIGITAL HUMANITIES (LAUREA MAGISTRALE IN INFORMATICA UMANISTICA, LM-43) Università degli Studi di Pisa

Thesis: Heterogeneous Document Embeddings for Multi-Lingual Text Classification (in English) - **Advisors:** Alejandro Moreo, Fabrizio Sebastiani
Course main subjects:
- Natural Language Processing
- Computational Linguistics
- Deep Learning with Python
- Object-oriented programming in Java
- Network Science
- Data Mining

Final grade 110/110 Cum Laude | **Level in EQF** EQF level 7

24/09/2012 – 20/07/2017 Trento, Italy
BACHELOR OF ARTS IN LANGUAGE AND CULTURES (LAUREA TRIENNALE IN LINGUE MODERNE, L-11) Università degli Studi di Trento

Thesis: Terry Gilliam in Search of his Holy Grail. A Creative Re-elaboration of Chrétien de Troyes' Legend of the Fisher King (in English) - **Advisor:** Roberta Capelli
Course main subjects:
- Linguistics studies in Italian, English and French
- Literature studies in Italian, English and French
- Philology

Final grade 96/110 | **Level in EQF** EQF level 6

11/09/2007 – 09/07/2012 Riva del Garda, Italy
HIGH SCHOOL DIPLOMA: MATURITÀ SCIENTIFICA Liceo Scientifico Andrea Maffei

WORK EXPERIENCE

01/08/2023 – 01/11/2023 Cambridge, United Kingdom
VISITING PHD STUDENT LANGUAGE TECHNOLOGY LAB AT UNIVERSITY OF CAMBRIDGE

Under the supervision of Dr. Ivan Vulic.
My visit at LTL focused on the interaction between multilingual and multimodal NLP, leveraging the visual domain to foster positive transfer learning across lower-resourced languages.

01/04/2022 – 30/11/2022 Heidelberg, Germany
VISITING PHD STUDENT NATURAL LANGUAGE PROCESSING GROUP AT UNIVERSITY OF HEIDELBERG

Under the supervision of Prof. Dr. Anette Frank.
My visit at the NLP Group focused on the assessment of the linguistic and temporal grounding capabilities of multimodal Video-Language models, developing a benchmark for a robust structured evaluation of these phenomena through the concept of Change of State verbs.

31/05/2020 – 30/10/2020 Pisa, Italy
RESEARCH FELLOW (ASSEGNISTA DI RICERCA) ISTI-CNR

Research fellowship on "Deep learning techniques for the automatic extraction of citations to primary sources" in the context of the European Project Horizon 2020 ARIADNEplus (Grant Agreement n. 823914).

12/02/2019 – 30/05/2019 Bellinzona, Switzerland
FREELANCE SOFTWARE DEVELOPER MOOCLOUD

Developing a proprietary widget to enhance WordPress based sites performances.

30/09/2016 – 31/07/2017 Riva del Garda, Italy
VIDEO MAKER ALTROVE REPORTER (SERVIZIO CIVILE NAZIONALE)

- Filming and editing video interviews;
- Editing a documentary film;
- Writing articles;
- Organizing funding events.

LANGUAGE SKILLS

Mother tongue(s): **ITALIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C1	C1	C1	C1
FRENCH	B2	B2	B1	B1	B2
GERMAN	A1	A1	A2	A2	A1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user
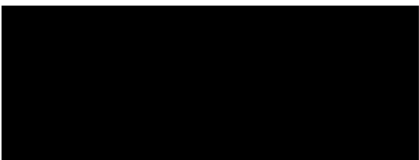
DIGITAL SKILLS

Programming Languages

Java | Python | PHP

Version Control

Git | GitHub | GitLab

OSs

Linux | Mac OS | Windows

ADDITIONAL INFORMATION

PUBLICATIONS

VILMA: A Zero-Shot Benchamrk for Linguistic and Temporal Grounding In Video-Language Models. –
2023
I. Kesen, A. Pedrotti, M. Dogan, M. Cafagna, E. Acikgoz, L. Parcalabescu, I. Calixto, A. Frank, A. Gatt, A.
Erdem, E. Erdem
Currently under review at ICLR2024.

Generalized Funnelling: Ensemble Learning and Heterogeneous Document Embeddings for Cross-Lingual Text Classification

– 2022
Alejandro Moreo, Andrea Pedrotti, and Fabrizio Sebastiani. ACM Transactions on Information Systems, 41,
2, Article 36 (April 2023), 37 pages.

Heterogeneous Document Embeddings for Cross-Lingual Text Classification – 2021
Alejandro Moreo, Andrea Pedrotti, and Fabrizio Sebastiani. *Proceedings of the 36th ACM Symposium
On Applied Computing* (ACM SAC 2021), Gwangju, KR.

Link https://doi.org/10.1145/3412841.3442093

Digital Public History e design della partecipazione. Riflessioni e proposte a partire dalla SSS – 2018
Stefano Capezzuto, Andrea Pedrotti, *Informatica Umanistica*, 2(3), 2018.

Link https://doi.org/10.6092/issn.2532-8816/8189

ATTENDED CONFERENCES AND SEMINARS

26/10/2023
LTL Seminars, Cambridge University

Presenting a talk tilted "VILMA: A Zero-Shot Benchamrk for Linguistic and Temporal Grounding In Video-Language Models".

15/11/2022
CL Colloquium, Heidelberg University

Presenting a talk titled "What's In An Action? A benchmark for Video-and-Language models through the lens of change-of-state verbs".

21/09/2022
Plenary Meeting AI4Media

Presenting the activity carried out at Heidelberg University

12/09/2021 – 14/09/2021
11th Italian Information Retrieval Workshop (IIR 2021)

Link: https://sisinflab.github.io/iir2021/

08/06/2020 – 10/06/2020
LREC 2020 Workshop on the Automated Extraction of Socio-Political Events from News (AESPEN 2020)

Link: https://emw.ku.edu.tr/aespen-2020/

13/06/2020 – 16/06/2020
European Conference on Information Retrieval (ECIR 2020)

Link: https://ecir2020.org/

02/06/2020
Webinar: Reformer: The Efficient Transformer

Speaker: Łukasz Kaiser - **Organized by:** Natural Language Processing, Zurich - **Link:** https://
www.meetup.com/it-IT/NLP-Zurich/events/270703978/

OTHER RELATED RESEARCH ACTIVITIES

CURRENT
Member of the WEMB Project - PRIN (Progetti di Ricerca d'Interesse Nazionale)

Work Package Leader of the WP1 (work-package) "Embeddings and cross-modality"

24/04/2021
SAC 2021 Best Poster Award

Awarded Best Poster at Symposium on Applied Computing 2021 (SAC21) for the paper "Heterogeneous
Document Embeddings for Cross-Lingual Text Classification"

Link https://dl.acm.org/doi/abs/10.1145/3412841.3442093

27/03/2021 – 31/03/2021
**Member of the Local Organization Committee for the 43rd European Conference on Information
Retrieval (ECIR 2021)**

Link: https://www.ecir2021.eu/

Peer Reviewing in Neural Netwoek (NEUNET)

Peer Reviewing in Journal on Computing and Cultural Heritage (JOCCH)

Peer Reviewing in Online Social Networks and Media (OSNEM)

Peer Reviewing in Computer Science (PeerJ)