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Personal information

Name / Surname
Address
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Home page
Nationality

Elena Marchetti

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Italian

Curriculum Vitae – Europass Format

Desired employment / Occupational field

Senior Researcher / Associate Professor in Computational Linguistics — multilingual NLP and language technology for under-resourced European languages

9

Years of NLP research
experience

EUR 1.4M

Competitive grant funding
secured

21

Peer-reviewed publications

Work Experience

04/2023 – present

Main activities and
responsibilities

Marie Curie Individual Fellow, Nimbus Institute for Advanced Study, Leuven, Belgium.

Lead researcher on cross-lingual transfer learning for morphologically rich European languages; supervise two doctoral students; convene a graduate research seminar; manage the fellowship's EUR 212,933 budget.

Type of business or sector
09/2019 – 03/2023

Public research institute – higher education and advanced research.

Main activities and
responsibilities

Postdoctoral Researcher, Department of Computational Linguistics, University of Meridian, Bologna, Italy.

Co-investigator on the Horizon Europe project SYNAPSE; designed and evaluated low-resource machine-translation pipelines for Sardinian, Friulian, and Occitan; authored six peer-reviewed papers; co-supervised three MSc theses.

Type of business or sector
01/2016 – 08/2019

Public university – research and doctoral training.

Main activities and
responsibilities

Doctoral Researcher / Teaching Assistant, Vertex Institute of Technology, Zürich, Switzerland.

Doctoral research on neural morphological analysis; teaching assistant for *Introduction to Computational Linguistics* (three cohorts, ca. 80 students each); built the group's first shared annotation toolchain.

Type of business or sector
06/2014 – 12/2015

Higher education – computational linguistics research group.

Main activities and
responsibilities

Junior NLP Engineer, Apex Language Technologies, Milan, Italy.

Built rule-based and statistical NLP components for a commercial machine-translation product line; integrated a custom morphological analyser into the production pipeline.

Type of business or sector

Language-technology software company.

Education and Training

01/2016 – 11/2019

Thesis

PhD in Computational Linguistics, Vertex Institute of Technology, Zürich, Switzerland.

Neural Approaches to Morphological Segmentation in Low-Resource European Languages (summa cum laude). Supervisor: Prof. Martina Roth.

Principal subjects

Computational morphology, statistical and neural machine translation, corpus linguistics, formal language theory.

09/2012 – 07/2014

MSc in Language Technology, University of Meridian, Bologna, Italy – 110/110 cum laude.

Principal subjects

09/2009 – 07/2012

Principal subjects

Academic Appointments

10/2023 – present

09/2020 – 06/2023

Professional and Scientific Appointments

Since 2022

Since 2021

Research Areas

Personal Skills and Competences

Mother tongue

Other language(s)

*Self-assessment
European level^(*)*

English
French
German

Social skills and
competences

Organisational skills and
competences

Technical skills and
competences

Computer skills and
competences

Artistic skills and
competences

Computational syntax, statistical machine translation, corpus linguistics, speech processing.

BA in Modern Languages and Linguistics, University of Meridian, Bologna, Italy – 108/110.

General and historical linguistics, Romance philology, English and French language and literature.

Visiting Lecturer, Faculty of Arts, Nimbus Institute for Advanced Study, Leuven, Belgium – graduate seminar *Neural Methods for Endangered and Minority Languages*.

Adjunct Professor, Department of Computational Linguistics, University of Meridian, Bologna, Italy – undergraduate course *Introduction to Natural Language Processing* (48 contact hours/year).

Member, Association for Computational Linguistics (ACL) and European Language Resources Association (ELRA).

Elected Member, Meridian Young Academy of Sciences – interdisciplinary panel on digital language preservation.

Multilingual and low-resource natural language processing; neural morphology and cross-lingual transfer; language technology for endangered and minority European languages; ethical and participatory design of NLP datasets.

Italian

Understanding		Speaking		Writing
Listening	Reading	Spoken interaction	Spoken production	
C2	C2	C1	C1	C1
B2	B2	B1	B1	B1
B1	B1	A2	A2	A2

^(*) Common European Framework of Reference (CEF) level

Strong cross-cultural collaboration skills developed through four multinational Horizon Europe consortia spanning nine countries; experienced in mentoring early-career researchers and coordinating multilingual annotation teams of up to twelve contributors.

Coordinated the data-collection work package (WP3) of the SYNAPSE project across five partner institutions; managed a EUR 340,000 sub-budget and the associated reporting to the funding agency.

Corpus design and annotation for low-resource languages; statistical and neural machine translation; morphological analysis and tagging; reproducible experiment design.

Python (PyTorch, Hugging Face Transformers), advanced SQL, Docker, Git/GitHub Actions, $\LaTeX$, Linux server administration; working knowledge of R and Julia for statistical analysis.

Amateur classical guitarist; occasional public speaker on science communication for local youth outreach programmes.

Other skills and competences

Driving licence(s)

Research Projects and Collaborations

01/2021 – 12/2024

09/2019 – 08/2021

04/2023 – 03/2025

Grant writing and project budgeting for Horizon Europe and national funding calls; scientific illustration for data visualisation.

Category B (car), held since 2011.

SYNAPSE – Scalable Syntactic and Semantic Processing for Underrepresented European Languages (Horizon Europe, Grant Agreement No. 101087654). Role: Co-Investigator and WP3 lead. Total budget: EUR 3.1 million; Meridian sub-award EUR 620,000. Partners: University of Meridian, Nimbus Institute for Advanced Study, Apex Language Technologies, Synapse Digital Humanities Lab.

MERIDIAN-DIALECT – national grant for dialectal corpus construction (Sardinian, Friulian). PI: Prof. Carla Beninati. Role: Postdoctoral Researcher.

CROSSLING – Marie Curie Individual Fellowship, “Cross-Lingual Transfer for Low-Resource Morphology.” Grant Agreement No. 890432, EUR 212,933. Host: Nimbus Institute for Advanced Study.

Research Visits¹

03/2022 (3 weeks)

07/2018 (6 weeks)

Synapse Digital Humanities Lab, Berlin, Germany – hosted by Dr. Thomas Reinholt; collaborative annotation-scheme design.

Vertex Institute of Technology, satellite laboratory, Lausanne, Switzerland – hosted by Prof. Anne-Sophie Girard; joint work on morphological segmentation benchmarks.

Invited Talks

2024

“Neural Morphology for Europe’s Minority Languages,” Nimbus Institute Colloquium Series, Leuven, Belgium.

2023

“Cross-Lingual Transfer Beyond High-Resource Languages,” panel keynote, European Chapter Conference of the ACL, Valletta, Malta.

2021

“Building NLP Datasets Ethically,” Meridian Digital Humanities Seminar, Bologna, Italy.

Scientific and Editorial Activity

Since 2023

Editorial Board Member

Journal of Multilingual Language Technology – editorial board member.

2022

Guest-Edited Special Issues

“Low-Resource NLP for European Languages,” special issue, *Journal of Multilingual Language Technology* (co-editor with Dr. Thomas Reinholt).

Conference Services

2021 – 2024

Programme Committee Member

ACL, European Chapter Conference of the ACL, and LREC – peer reviewer.

2023

Session Chair

“Multilingual and Low-Resource NLP” track, European Chapter Conference of the ACL, Valletta, Malta.

Teaching Activity

AY 2020/21 – 2022/23

Introduction to Natural Language Processing, undergraduate, 6 ECTS, University of Meridian.

AY 2023/24 – present

Neural Methods for Endangered and Minority Languages, graduate seminar, 4 ECTS, Nimbus Institute for Advanced Study.

Supervision

Two doctoral students (ongoing); seven completed MSc theses (2019 – 2024).

¹At least one week.

Grants and Awards

2023	Marie Curie Individual Fellowship, EUR 212,933.
2021	Meridian Young Researcher Prize for Digital Humanities, Meridian Academic Foundation.
2019	Best Doctoral Thesis Award, Vertex Institute of Technology.
2018	Travel Grant, European Language Resources Association (ELRA), EUR 1,200.

Publications

Peer-Reviewed Journal Articles

- Marchetti, E., Reinholt, T. (2024). “Cross-Lingual Morphological Transfer for Under-Resourced Romance Varieties.” *Journal of Multilingual Language Technology*, 12(3), 145–168.
- Marchetti, E., Beninati, C. (2023). “Annotation Schemes for Endangered Dialects: A Participatory Approach.” *Computational Linguistics Quarterly*, 9(1), 22–47.
- Marchetti, E. (2022). “Neural Segmentation Meets Morphological Typology.” *Language Technology and Evaluation Review*, 15(2), 201–226.
- Marchetti, E., Roth, M. (2021). “Benchmarking Low-Resource MT for Regional European Languages.” *Journal of Multilingual Language Technology*, 8(4), 301–329.
- Marchetti, E. (2020). “A Survey of Morphological Segmentation Approaches for Romance Languages.” *Computational Linguistics Quarterly*, 6(2), 88–114.

Peer-Reviewed Conference Proceedings

- Marchetti, E., Reinholt, T. (2023). “Cross-Lingual Transfer Beyond High-Resource Languages.” *Proceedings of the European Chapter Conference of the ACL*, Valletta, Malta, 210–222.
- Marchetti, E. (2022). “Data-Efficient Fine-Tuning for Minority-Language NER.” *Proceedings of LREC*, Marseille, France, 3301–3310.
- Marchetti, E., Girard, A.-S. (2019). “Morphological Segmentation Benchmarks for Romance Varieties.” *Proceedings of the ACL Student Research Workshop*, Florence, Italy, 55–63.
- Marchetti, E., Roth, M. (2018). “Neural Models for Sardinian Morphology.” *Proceedings of LREC*, Miyazaki, Japan, 1904–1911.

Book Chapters

- Marchetti, E. (2023). “Digital Revitalisation of Minority European Languages.” In T. Reinholt (Ed.), *Language Technology and Cultural Heritage*, Nexa Academic Press, 133–156.
- Marchetti, E., Beninati, C. (2020). “Corpus Construction for Under-Documented Dialects.” In M. Roth (Ed.), *Handbook of Computational Dialectology*, Vertex University Press, 45–68.

Additional Information

References

Full publication list, datasets, and code are available at the homepage listed above. Available upon request, including from Prof. Martina Roth (PhD supervisor, Vertex Institute of Technology) and Dr. Thomas Reinholt (Synapse Digital Humanities Lab).

I hereby authorise the processing of my personal data pursuant to Regulation (EU) 2016/679 (GDPR) for the purposes of the present recruitment procedure.

Bologna (ITALY), July 24, 2026

Place and date

Elena Marchetti