

GAIA SORGE

Ph.D. Candidate in Computer and Data Science for Technological and Social Innovation

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EDUCATION & RESEARCH

Ph.D. Candidate in Computer and Data Science for Technological and Social Innovation

11/2023 – Present

Università di Modena e Reggio Emilia

- Dissertation: "Toward a syntactic phylogeny of Semitic languages through the Parametric Comparison Method."
- The project combines theoretical syntax with computational tools. Developed practical skills in computational linguistics and historical data modelling, including parameter encoding and data preparation using Python; phylogenetic algorithms; Bayesian models applied to linguistic data; and cross-linguistic dataset management.

Visiting PhD Researcher

10/2025 – 05/2026

Freie Universität Berlin, Berlin, Germany

- Research stay abroad as part of doctoral research, with activities in Semitic linguistics in collaboration with researchers at Freie Universität Berlin.
- Engaged with the university's research environment and academic community through seminars, workshops, and research activities; developed international collaborations and expanded the research network in linguistics, Semitics, and Neo-Aramaic.

M.A. in Languages and Cultures of Asia and Africa

10/2020 – 03/2023

Università di Napoli "L'Orientale"

- Thesis: "Gender and Number Agreement in Libyan Judeo-Arabic."
- Final grade: 110/110 with honors.

B.A. in European, Euroamerican and Oriental Languages and Cultures

10/2016 – 04/2020

Università di Catania

- Thesis: "Poetic and Literary Sources of Norse Cosmogony: a comparison."
- Final grade: 110/110 with honors.

LANGUAGES

Italian — Native
Arabic — Advanced
English — Advanced
Spanish — Advanced
French — Intermediate
Modern Hebrew — Beginner
Amharic — Beginner

ADDITIONAL SKILLS

Python — Beginner
Office Suites — Intermediate
GitHub — Beginner

OTHER CERTIFICATIONS

24 CFU Track for School Teaching

04/2022 – 07/2022

Università di Napoli "L'Orientale"

PUBLICATIONS

- Irimia, Monica, Emanuela Li Destri, Marco Longhin, Gaia Sorge. "Syncretism patterns in Romance oblique DOM". Isogloss (forth.)
- Li Destri, Emanuela, Marco Longhin, Gaia Sorge, Sofia Ferroni, Giovanni Battista Matteazzi, Andrea Artioli, Lorenzo Carletti, Federico Motta, Giuseppe Longobardi, Cristina Guardiano. "Handling Cross-Dialect Syntactic Variation: a Theory-Driven Web Resource." European Language Resources Association (ELRA).
- Longhin, Marco, Isabella Morlini, Gaia Sorge, Monica A. Irimia, and Cristina Guardiano. In prep. "Parametric comparison and phylogenetic testing." Ms. UniMoRe.
- Sorge, Gaia, Vincenzo Stalfieri, Monica A. Irimia and Cristina Guardiano. "DOM e accordo nelle costruzioni con SI arbitrario: alcuni dati dall'Italia meridionale." Atti del XXXI convegno internazionale di linguistica e filologia romanza, Société de Linguistique Romane / Éditions de linguistique et de philologie (2026).
- Guardiano, Cristina, Giuseppe Longobardi, Andrea Sgarro and Gaia Sorge. "Alcune relazioni sintattiche tra famiglie linguistiche dell'Eurasia." Festschrift in honor of Riccardo Contini, "Series Minor", UniorPress (2026).
- Sorge, Gaia. "Gender and Number Agreement in Libyan Judeo-Arabic." Maydan: rivista sui mondi arabi semitici e islamici 3 (2023).

CONFERENCES & SEMINARS

Poster presentation (selected via abstract review) (with E. Li Destri) <i>La variazione interlinguistica nella sintassi dei numerali — Dublin 50° Convegno SIG – Società Italiana di Glottologia</i>	10/2026
Conference paper (selected via abstract review) (with C. Guardiano, E. Li Destri, M. Longhin) <i>Gallo-Romance patterns in Italo-Romance: number marking and bare nouns — Gallo-Romance Advances in Morphology & Syntax, Trinity College</i>	06/2026
Conference paper (selected via abstract review) (with E. Li Destri, M. Longhin, S. Ferroni, G. Matteazzi, A. Artioli, L. Carletti, F. Motta, G. Longobardi, C. Guardiano) <i>Handling Cross-Dialect Syntactic Variation: a Theory-Driven Web Resource — DialRes-LREC26. Workshop on Dialects in NLP - A Resource Perspective, Palma de Mallorca</i>	05/2026
Conference paper (with G. Longobardi, C. Guardiano, M. Longhin, G. Sorge, D. Kazakov, G. Barbujani) <i>Who likes to travel alone? Movements of populations and languages across Eurasia — Workshop: Triangulating Human Diversity</i>	04/2026
Poster presentation (selected via abstract review) (with D. Kazakov, T. Aljohani, A. K. Anom, M. Anastasova, D. Carrasco Coquillat, R. Dekova, I. Nascimento Fernandes, S. Ferroni, M. Longhin, R. Margova, L. Milković, N. Qomariyah, R. Roy, J. Wang, H. Yarahmadi, P. Crisma, G. Longobardi) <i>Large language models as assistants for the parametric comparison method — EVOLANG XVI, University of Plovdiv</i>	04/2026
Poster presentation (selected via abstract review) (with C. Guardiano, M. Longhin, S. Ghinoi, A. Artioli) <i>Crossparametric dependencies and Social Network Analysis — EVOLANG XVI, University of Plovdiv</i>	04/2026
Poster presentation (with C. Guardiano, E. Li Destri, M. Longhin, G. Matteazzi, M. Irimia, I. Morlini, P. Crisma, G. Longobardi) <i>Exploring syntactic diversity across the World's languages. A novel tool for comparative parametric investigation — EVOLANG XVI, University of Plovdiv</i>	04/2026
Conference paper (selected via abstract review) (with M. Irimia, C. Guardiano, V. Stalfieri, E. Li Destri, M. Longhin) <i>Marcatura differenziale dell'oggetto e accordo nelle costruzioni con SE arbitrario: una prospettiva romanza — 53rd Cambridge Romance Linguistics Seminar, Cambridge University</i>	01/2026
Conference paper (selected via abstract review) (with M. Irimia, C. Guardiano, V. Stalfieri, E. Li Destri, M. Longhin) <i>DOM and agreement in arbitrary se constructions. A Romance view — The International Workshop on Romance SE/SI Construction, Universitat de Barcelona</i>	01/2026
Conference paper (selected via abstract review) (with C. Guardiano, I. Morlini, M. Longhin) <i>DOM and oblique morphology. Romance patterns in enriched case hierarchies — Going Romance 2025, Università Ca' Foscari</i>	12/2025
Conference paper (selected via abstract review) (with C. Guardiano, G. Longobardi, A. Sgarro, A. Artioli, L. Carletti, F. Motta) <i>Indo-European and its closest relatives: are there any? — 27th International Conference on Historical Linguistics, Pontificia Universidad Católica de Chile</i>	08/2025
Conference paper (selected via abstract review) (with C. Guardiano, M. Irimia and V. Stalfieri)	07/2025

DOM e accordo nelle costruzioni con SE. Alcuni dati dall'Italia Meridionale — XXXI Congresso internazionale di linguistica e di filologia romanza, Università del Salento

Conference paper (selected via abstract review) (with C. Guardiano, A. De Angelis)

06/2025

Polydefinite structures in Ancient Greek between history and contact — 11th International Colloquium on Ancient Greek Linguistics, Université Côte d'Azur

Poster presentation (selected via abstract review) (with C. Guardiano, G. Longobardi, A. Sgarro, C. Creanga, A. Artioli, L. Carletti, F. Motta)

06/2025

Indo-European and its closest relatives: are there any? — 26th Diachronic Generative Syntax conference, Oxford University

Conference paper and poster presentation

06/2025

Toward a Syntactic Phylogeny of Semitic Languages — PhD Workshop, Università di Modena e Reggio Emilia

Conference paper (selected via abstract review)

04/2025

Toward a Syntactic Phylogeny of Semitic Languages — Edinburgh Theoretical Historical Linguistics, University of Edinburgh

Conference paper (selected via abstract review) (with G. Longobardi, C. Guardiano, C. Creanga, A. Sgarro)

02/2025

Generative syntax and historical taxonomy — 50th Incontro di Grammatica Generativa, Università di Padova

Seminar

12/2024

Linguistica, parametri e algoritmi: un "accordo" possibile? — Università di Modena e Reggio Emilia

Conference paper (selected via abstract review) (with G. Longobardi, C. Guardiano, C. Creanga, A. Sgarro)

10/2024

Indo-European and its closest relatives: are there any? — 35th Annual UCLA Indo-European Conference, University of California, Los Angeles

Seminar

10/2024

Linguistica, parametri e algoritmi: un "accordo" possibile? — Università di Napoli "L'Orientale"

Conference paper (selected via abstract review) (with C. Guardiano, M. Irimia and V. Stalfieri)

06/2024

DOM and agreement in SE-constructions: The view from Southern Italy — 18th Cambridge Italian Dialect Syntax-Morphology Meeting, University of Manchester

Seminar

12/2023

L'accordo morfosintattico nel giudeo-arabo libico e la sua variazione in contesti migratori — Università di Modena e Reggio Emilia

Conference paper (selected via abstract review) (with E. Balbo)

10/2023

Racing the clock: The (re)documentation of endangered Judeo-Arabic varieties in migratory settings — Documenting languages, documenting cultures: migration, minorities, dialects, Università di Napoli "Federico II"

Conference paper (selected via abstract review)

02/2023

Gender and Number Agreement in Libyan Judeo-Arabic — Le giornate di studio di Maydan: riflessioni sui mondi arabi, semitici e islamici, Università di Torino

ACADEMIC TEACHING

Lecturer (contract-based)

2025–26

Università di Modena e Reggio Emilia (Reggio Emilia, Italy)

- Provided teaching and tutoring support for "Analisi Linguistica per la Comunicazione" within the B.A. programme in Communication Sciences (24 hours).
- Delivered lectures, tutorials, and student support activities; monitored students' learning progress and provided academic guidance and individual feedback.
- Designed and prepared written examinations and assessment materials; supervised and invigilated written examinations; graded and assessed students' written examinations.

Teaching Assistant (attività didattica integrativa)

2024–25

Università di Modena e Reggio Emilia (Reggio Emilia, Italy)

- Provided teaching support and tutoring for “Analisi Linguistica per la Comunicazione” within the B.A. programme in Communication Sciences (20 hours).
- Supported students throughout the course, addressing their academic needs and learning difficulties; monitored learning progress and individual needs.
- Assisted students with their academic development and study planning.

OTHER PROFESSIONAL EXPERIENCES

Intern as a Language Teacher

150-hour internship

Pacific Language Institute (Cercola, NA, Italy)

- Participated in the delivery of online Arabic language courses for children and young adults.
- Observed and analysed language lessons and prepared structured teaching observation reports.
- Gained practical knowledge of the communicative approach to language teaching, including lesson planning, learner engagement, and age-appropriate teaching strategies.

Intern as a Language Teacher

150-hour internship

Liceo Linguistico Ettore Majorana (San Giovanni La Punta, CT, Italy)

- Supported Spanish language and literature classes for high school students.
- Observed teaching practices and classroom dynamics as part of integration into the school environment.
- Participated in teaching and learning activities, gaining practical experience in classroom interaction and student engagement.

ACADEMIC SERVICE

Editor-in-Chief

2024–25

Maydan: rivista sui mondi arabi semitici e islamici

- Led editorial and organizational activities, overseeing the preparation and publication of journal issues.
- Coordinated the editorial team and peer-review process, including evaluation and management of submitted manuscripts.
- Contributed to the organization of academic conferences, workshops, and other scholarly events, as well as general organizational and administrative activities.

Editorial Board Member

2023–Present

Maydan: rivista sui mondi arabi semitici e islamici

- Member of a doctoral student-led academic journal in Arab, Semitic, and Islamic studies.
- Contributed to academic evaluation and peer review, editorial activities, conference and workshop organization, and general journal management.

Co-organizer

02/2025

Le giornate di Studio di Maydan e SeSaMO – 2a Edizione; Alma Mater Studiorum – Università di Bologna

Co-organizer

02/2024

Le giornate di Studio di Maydan e SeSaMO; Sapienza Università di Roma

PROJECT MEMBERSHIP

Member, FAR 2024 – POM

2025–Present

“Modelling crosslinguistic diversity in Differential Object Marking through the Parametric Comparison Method”; PI: Prof. C. Guardiano, Università di Modena e Reggio Emilia

Guardiano, Università di Modena e Reggio Emilia

- Contributed to research on cross-linguistic variation in Differential Object Marking through the Parametric Comparison Method, at the intersection of theoretical syntax, comparative linguistics, and cross-linguistic variation.
- Worked with cross-linguistic linguistic data to identify and model patterns of variation in object marking within a parametric framework.

Member, PRIN 2022 – PARTHICO

2023–Present

“Parameter Theory on Historical Corpora: Measuring the Power of Parameter Setting Theory on Historical Corpora”; funded by MUR; coordinated by Prof. C. Guardiano, Università di Modena e Reggio Emilia

- Contributed to research at the intersection of theoretical linguistics, historical linguistics, and corpus-based research, working with historical linguistic data and corpora within a parameter-based framework.