

Curriculum Vitae

Patrizia Paggio

Born in Rome on 2nd March 1959.
Nationality: Italian.

Current position

Professor at the Institute of Linguistics and Language Technology, University of Malta (part-time).
Associate Professor with Special Qualifications at the University of Copenhagen, Centre for Language Technology (part-time).

Education

- 1997: PhD in computational linguistics at the University of Copenhagen. Title of thesis: *The Treatment of Information Structure in Machine Translation*. Reviewers: Elisabet Engdahl and Eva Hajičová.
- 1988: Master's in English (major) and Computational Linguistics (subsidiary subject) at the University of Copenhagen.
- 1981: Laurea in Modern Languages and Literatures at the University of Rome (English and Russian).
- 1977: Diploma in Classical Studies at Liceo Mamiani in Rome.

Research positions

- 2012- : Employed at the Institute of Linguistics and Language Technology, University of Malta (part-time), full professor since 2019.
- 1991- : Employed as a researcher by Center for Sprogteknologi, senior researcher since April 1999 (part-time since October 2011).
- 1992: Guest researcher at the Centre for Cognitive Science at the University of Edinburgh.
- 1987-1990: Employed as a researcher by the MT project Eurotra-DK.

Research visits

- 2023: Research visit at the University of Pompeu Fabra, Barcelona (ES)
- 2013: Visiting professor at Roma III University, Rome (IT).
- 2011: Visiting professor at Foundation Bruno Kessler, Trento (IT).
- 1992: Guest researcher at the Centre for Cognitive Science at the University of Edinburgh.

Research expertise

Creation of scientific trends and communities

- Prime mover in the creation of an international research community in the inter-disciplinary area of multimodal communication, bringing together researchers from gesture studies and language technology practitioners interested in computer modelling of multimodal behaviour. Relevant instruments: series of Multimodal Symposia on Multimodal Communication held regularly since 2003 (www.mmsym.org) and the international GEHM network including partners from eight research groups throughout Europe (<https://cst.ku.dk/english/projects/gestures-and-head-movements-in-language-gehm/>).
- Prime mover in the bringing together of a common scientific community in the area of Multimodal Communication and Interfaces in the Nordic countries through the MUMIN network (<https://cst.dk/mumin/>), which run in the period 2002-2004 and included members from ten different research institutions in the Nordic countries.
- Main actor in promoting the field of multimodal corpus collection annotation through:
 - the development of methodologies for multimodal annotation, particularly the influential MUMIN annotation scheme¹;
 - the creation of annotated multimodal corpora for several languages²;
 - the organisation of a regular series of international workshops on *Multimodal Corpora*, held biennially in conjunction with the International Conference on Language Resources and Evaluation (from 2000 to 2018), as well as the series of Symposia on Multimodal communication and related publications³.
- Responsible for the MC2 (Multimodal Communication and Computation) research group at CST. The group has been behind a substantial portion of the peer-reviewed publications produced at CST in recent years.

Projects

Selected projects and tasks (1991-2022)

- International research network GEHM: GEstures and Head Movements in language: main applicant and coordinator.
- Project on Visual Prosody at the University of Malta: coordinator, responsible for the conduction of an experimental study on the perception of multimodal prominence.
- MAMCO project at the University of Malta: coordinator, responsible for the creation of a multimodal corpus of conversational Maltese.
- Nordic project NOMCO: local coordinator, responsible for the creation of a multimodal resource for Danish as well as investigations based on this resource.
- Project “Verbal and bodily communication”: fundraiser and main researcher, responsible for the development of theories and corpora on multimodal communication.
- Project “Information Structure in Danish”: fundraiser and main researcher, responsible for the development of a model of information structure for the Danish language.

¹ Allwood, J., L. Cerrato, K. Jokinen, C. Navarretta & P. Paggio (2007) The MUMIN Coding Scheme for the Annotation of Feedback, Turn Management and Sequencing. In J. C. Martin et al. (eds) *Multimodal Corpora for Modelling Human Multimodal Behaviour*. Special issue of the *International Journal of Language Resources and Evaluation*. Springer. Vol.41, no.3-4, pp.273–287.

² See e.g. Paggio, P. & Navarretta, C. The Danish NOMCO corpus: Multimodal interaction in first acquaintance conversations. *Lang Resources & Evaluation* 51, 463–494 (2017).

³ See e.g. Kipp, M., Martin, J. C., Paggio, P., & Heylen, D. (Eds.). (2009). *Multimodal corpora: from models of natural interaction to systems and applications*.

- EU-funded MOSES project: main fundraiser and local project manager, responsible for the analysis of Danish queries in the context of a methodology for ontology-based annotation and search of data on university Web sites.
- Nordic network MUMIN, on multimodal interfaces: main fundraiser and coordinator.
- Danish research project OntoQuery, on ontology based information retrieval: responsible for design and development of syntactic and semantic analysis.
- Danish research project “The Staging of Virtual 3D-Spaces”: CST project manager for CST, and responsible for the design and implementation of the natural language dialogue component of a multimedia application.
- GRASP project: project manager and responsible for the design and development of Danish grammars in the HPSG and LFG frameworks.
- EU-funded SCARRIE project, on spelling and grammar checking: responsible for Danish grammar development and the establishment of a general evaluation methodology.
- EU-funded LCC (Language Consulting Centre) project: contributions to seminars on language technology aimed at Danish industry.
- EU-funded TEMAA project (A Testbed Study of Evaluation Methodologies: Authoring Aids): CST project manager.
- PaTrans MT project: adaptation of the Eurotra English grammars for a commercial MT system.

Administrative tasks at UM

- Member of Board of Study of the MSc in HLST at the Department of AI, ICT Faculty
- Coordinator of BSc in Human Language Technology at the Institute of Linguistics and Language Technology (until September 2023)
- Member of Board of Study of the BSc in Human Language Technology at the Institute of Linguistics and Language Technology (until September 2023)
- Member of the Doctoral Committee at the Institute of Linguistics and Language Technology (until September 2022)
- Coordinator of the Linguistics Circle Seminar Series (until September 2022)

Administrative tasks at UCPH

2016-present

- Member of Research Committee and Coordination Committee at the Department of Nordic Studies and Linguistics (2018-2019)
- Member of Representation Committee for the Danish Language Council, appointed in 2016 for the period 1/1/2017 to 31/12/2020
- CST section leader, responsible for the Centre’s research and development strategy (2016-17)
- Denmark’s representative in the European Network on Integrating Vision and Language (iV&L Net) ICT COST Action IC1307

Recently organised scientific events

- 1st International Multimodal Communication Symposium, Univresity of Pompeu Fabra, Barcelona, 26-28 April 2023.
- International workshop on People in Language, Vision and the Mind, held in hybrid mode in conjunction with LREC2022 in Marseille on June 20th 2022.
- International workshop on People in Language, Vision and the Mind, held online in conjunction with LREC2020 on May 16th 2020.
- Lexical Semantics Seminar under the Linguistic Circle of Copenhagen, University of Copenhagen, 11 June 2018.
- 4th European and 7th Nordic Symposium on Multimodal Communication, Copenhagen, 20-30 September 2016.
- 1st European Symposium on Multimodal Communication. Valletta, 17-18 October 2013.
- Workshops on Multimodal Corpora held in conjunction with LREC 2004, 2006, 2008, 2010, 2012, 2014, 2016, 2018.
- Workshop on *Multimodal Corpora* at IVA2013 Edinburgh, 29 August 2013.

Teaching experience, supervision and student project assessment

I have extensive teaching and supervision experience in a broad range of subjects relating to language technology and computational linguistics.

My current teaching portfolio includes the following units.

University of Malta

Research Topics in Natural Language Processing (MSc level: 1 lecture of a series)

Hands-on Language (BSc level: 1 lecture of a series)

Language for Humans and Machines (BSc level: 7 lectures)

Corpus Linguistics (BSc level: 14 lectures)

Multimodal Interaction and Communication (BSc and MSc level: 14 lectures)

University of Copenhagen

Cognitive Science 2: Multimodal Communication and Modelling (MSc: 7 lectures)

Language Processing 2 (MSc level: 7 lectures)

Scholarly assessment assignments

Programme committees and conference reviewing

- Member of programme committee for a large number of conferences in the field of language technology, including the ACM International Conference on Multimodal Interaction, the Language Resources and Evaluation Conference, the Nordic and European symposia on Multimodal Communication, the Nordic Conference of Computational Linguistics, and the Conference of the Italian Association for Artificial Intelligence (1-2 per year).
- Standing programme committee member for the Copenhagen Linguistic Circle.

Journal and project reviews

- Acta Linguistica Hafnensia, Nordic Journal of Linguistics, Journal of Language Resources and Evaluation, Journal of Intercultural Communication, Cognitive Processing, Journal of Affective Computing, Speech Communication (2-3 reviews per year).
- Has acted as a reviewer for the Nordic Research Council and the EU Commission.

Dissemination

Recent invited talks

- “The perception of multimodal prominence”. Invited talk at the University of Pompeu Fabra, Barcelona, 17 April 2023.
- “MAMCO: the Maltese Multimodal Corpus”. Invited talk for the Linguistics Circle of the UM, 16 December 2022.
- “Multimodal Interaction in First Acquaintance Conversations”. Invited talk at KTH, Department of Speech, Music and Hearing, Stockholm, 8 June 2018.
- “Multimodal Interaction in First Acquaintance Conversations”. Invited talk at KU Leuven for the Research Group Multimodality, Interaction & Discourse (MIDI), September 2017.
- Two invited talks at Sprogteknologisk Forum, the last one in Nov 2016.
- “Linguaggio non-verbale in un corpus di conversazioni danesi: teoria ed empiria”. Invited talk given at the Department “Filosofia, Comunicazione e Spettacolo”, ROMA III University, 1 October 2013.
- “Information structure and gestures in first acquaintance dialogues”. Keynote at the Workshop on Information Structure in Spoken Languages, Bielefeld, 14 June 2012.
- “Towards an empirically-based grammar of speech and gestures”. Invited talk given at Linguistics Circle of the University of Malta, 1 February 2012.
- “Information structure in spoken and multimodal Danish data”. Invited talk given at the Third International Workshop on Germanic Languages, Berlin, 16 March 2012.

Other dissemination activities

- Interview in Politiken in 29/9/2016 about gesture and language:
<http://politiken.dk/kultur/ECE3404570/gestik-tak-for-hjaelpen-okay-eller-numsehul/>
- Two interviews on national Maltese television about gesture and language, 2013 and 2015.
- Article “Sprogteknologi nu og i fremtiden”, published in the online magazine Spindet (Sprogpsykologisk Information og Debat), 2010.