

# Curriculum Vitae

Patrizia Paggio

Born in Rome on 2nd March 1959.

Nationality: Italian.

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## Current position

Associate Professor (since 2009, Lektor MSK ='with special qualifications') at the University of Copenhagen, Centre for Language Technology (CST) (part-time).

Full Professor at the Institute of Linguistics and Language Technology, University of Malta (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 after April 1999.
- 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: Visiting professor at Pompeu Fabra University, Barcelona (ES), planned for April.
- 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, University of Edinburgh (UK).

## Previous professorship assessment

- 2019: Full professorship granted at the University of Malta.

- 2012: Assessed as qualified, and number two in the priority list, for a Full Professorship in Pragmatics and Multimodal Communication at the European University Viadrina, Frankfurt Oder (DE).
- 2010: Assessed as qualified for a professorship in language technology at CST, University of Copenhagen.

## 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](http://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 scheme<sup>1</sup>;
  - the creation of annotated multimodal corpora for several languages<sup>2</sup>;
  - 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 publications<sup>3</sup>.
- 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 at CST (1991-2023)*

- International research network GEHM: GEstures and Head Movements in language: main applicant and coordinator.
- Nordic project NOMCO: CST 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.

<sup>1</sup> 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.

<sup>2</sup> See e.g. Paggio, P., and C. Navarretta (2016) The Danish NOMCO Corpus Multimodal Interaction in First Acquaintance Conversations. *Journal of Language Resources and Evaluation*. Springer, pp.1-32.

<sup>3</sup> 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*.

- Project “Information Structure in Danish”: fundraiser and main researcher, responsible for the development of a model of information structure for the Danish language.
- EU-funded MOSES project: main fundraiser and CST 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.

#### *Tasks at Eurotra-DK (1987-1990)*

- Design and implementation of substantial parts of the Danish analysis and generation grammars.
- Implementation of Italian-Danish transfer component.
- Coordination of the Special Group of Interest on Preference, which designed the Eurotra preference mechanism.

### **External Funds**

<b>External funds (only CST part)</b>	<b>Project name</b>	<b>Period</b>	<b>Project type</b>	<b>Funding authority</b>	<b>PP's role</b>
1.206.435 DKK	GEHM: GEstures and Head Movements in language	2019-2022	Research Network	FKK	PI
200.000 EUR	NOMCO – Multimodal Corpus Annotation in the Nordic countries	2009-2013	Cooperative, three countries	NOS-HS, NORDCORP-program	PI for CST
2.260.000 DKK	VKK – Verbal og Kropslig Kommunikation	2008-2012	Cooperative, only CST	FKK	PI
950.000 DKK	Informations-struktur i det danske sprog	2002-2006	Personal grant	Carlsbergfondet	PI
950.000 NOK	MUMIN	2002-2004	Network, three countries, ten research groups	NordForsk	PI
270.000 EUR	MOSES - MOdular and Scalable Environment for the Semantic WEB	2002-2005	Cooperative, four countries	EU	PI for CST

### Submitted project applications

DFF research project 2. Prominence and Reduction in Language (PARLA) 1/9/2023-31/8/27.  
Funds applied for: appr. 4.2 M DKK excl. overhead. Submitted September 2022.

### Strategic and political tasks (last 15 years)

- Member of Research Committee and Coordination Committee at the Department of Nordic Studies and Linguistics (2018-2019).
- Member of Representation Committee for "Dansk Sprognævn", appointed in 2016 for the period 1/1/2017 to 31/12/2020.
- Denmark's representative in the European Network on Integrating Vision and Language (iV&L Net) ICT COST Action IC1307.
- Member of HumanT, think tank of the Faculty of Humanities.
- Member of the advisory group of the Centre for IT Innovation at the University of Copenhagen.
- Staff representative in the CST advisory board.
- Member of study committee at the Department of Danish Studies and Linguistics.
- Scientific coordinator of Master's programme in It and Cognition.

### Leadership and coordination

- Chair of assessment board for postdoc positions at the Department of Nordic Studies and Linguistics (2022) and the Centre for Language Technology (2014)
- CST section leader (2016-17): I was responsible for the Centre's research and development strategy at a challenging time where CST had just been merged into a larger department and suffered a substantial staff loss. My main achievements were the Centre's new strategy plans and being responsible for CST in the internal evaluation of the Department of Nordic Studies and Linguistics.
- Leadership course "Lyst til ledelse" at the University of Copenhagen (2010-2011).
- Scientific coordinator of Master's programme in It and Cognition at the University of Copenhagen (2008-2013).
- Coordination of many different groups of people (typically 4-8) in connection with the various projects I have coordinated and managed. In the GEHM network, I'm coordinating 8 different groups from 7 different countries. In the MUMIN network (2002-2005), I coordinated 10 different research groups from three different countries.
- Chair of study committee responsible for the creation of the Master's programme in IT and Cognition at the University of Copenhagen. The programme, launched in the Autumn 2007, started as an interdisciplinary initiative involving the Institute of Nordic Studies and Linguistics, the Institute of Psychology and the Institute of Computer Science. It currently runs as a successful international programme with an intake of about 30 students per year.

### 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. More detail is provided in my teaching portfolio.

### Organised scientific events (last 15 years)

- 1st International Symposium on Multimodal Communication, to be held at the Pompeu Fabra University in Barcelona (ES) on April 26-28, 2023.
- Workshop co-chair at the 29<sup>th</sup> International Conference on Computational Linguistics (COLING), Gyeongju, Republic of Korea, October 12-17, 2022.
- International workshop on People in Language, Vision and the Mind, held in conjunction with LREC 2022 in Marseille on June 20, 2022.
- International workshop on People in Language, Vision and the Mind, held in conjunction with LREC 2020 online on May 16<sup>th</sup> 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.
- Workshop on Multimodal Communication held in Odense (DK) in connection with Nodalida 2009.
- Workshop on Multimodal Corpora held in Marrakesh (Morocco) in connection with LREC 2008.

### 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 International Conference of Computational Linguistics (both ACL and EACL), 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).
- Member of review committee for the evaluation of the Priority Programme “Visual Communication: Theoretical, Empirical, and Applied Perspectives (ViCom)”. (German Research Foundation), March 2022

- Acted earlier as a reviewer for the Nordic Research Council and the EU Commission.

## **Invited talks and dissemination**

### **Recent invited talks**

- “Studies on Multimodal Interaction in First Acquaintance Conversations”. Invited talk to be given at the of Pompeu Fabra University, April 2023.
- “MAMCO: The Maltese Multimodal Corpus”. Invited talk given online for the Linguistics Circle of the University of Malta, 16 December 2022.
- “Multimodal Interaction in First Acquaintance Conversations”. Invited talk at KTH, Department of Speech, Music and Hearing, Stockholm, 8 June 2018.
- 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 the online magazine Spindet (Sprogpsykologisk Information og Debat), 2010.