

MORGANE PEIROLO

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CONFERENCE ARTICLES

- Hallart, C., **Peirolo, M.**, Xu, Z., Fourtassi, A. (2022, July 20). Contingency in Child-Caregiver Naturalistic Conversation: Evidence for Mutual Influence. <https://doi.org/10.31234/osf.io/cev8k>
- Bodur, K., Branje, S., **Peirolo, M.**, Tiscareno, I., German, J.S. (2021) Domain-Initial Strengthening in Turkish: Acoustic Cues to Prosodic Hierarchy in Stop Consonants. Proc. Interspeech 2021, 1459-1463, doi: 10.21437/Interspeech.2021-2230
- **Morgane Peirolo**, Magalie Ochs (2021) Utiliser les agents virtuels pour lutter contre les discriminations sociales, sciencesconf.org:wacai2021:350492 Submission in Wacai, October 2021: Workshop Affect, Compagnon artificiel, Interaction
- Christine Meunier, **Morgane Peirolo**, Brigitte Bigi. (2020) La mobilisation du tractus vocal est-elle variable selon les langues en parole spontanée ?. 6th joint conference Workshop on Speech (JEP, 33th edition), Automatic Processing of Natural Languages (TALN, 27th edition) <https://hal.archives-ouvertes.fr/hal-02798569v3/document>

ARTICLES IN PREPARATION

- **Morgane Peirolo**, Amie Fairs, Guillaume Thierry, Elin Runnqvist: Language induced changes of mind: two behavioural studies.
- **Morgane Peirolo**, Amie Fairs, Guillaume Thierry, Elin Runnqvist: Language induced changes of mind: investigating the visual mismatch negativity.
- **Morgane Peirolo**, Amie Fairs, Guillaume Thierry, Elin Runnqvist: Language induced changes of mind: investigating lexicalization processes.

JOURNAL AND CONFERENCE REVIEWS

- Cognitive Neuroscience of Language Embodiment and Relativity conference (CoNSoLER), 2022. 4 reviews.

TALKS

- **Morgane Peirolo**, Amie Fairs, Guillaume Thierry, Elin Runnqvist (2022) Language induced changes of mind. Article presented in October 2022 at the Cognitive Neuroscience of Language Embodiment and Relativity conference (Poznań, Poland, online presentation)
- **Morgane Peirolo**, Magalie Ochs (2021) Utiliser les agents virtuels pour lutter contre les discriminations sociales. Article presented in October 2021 at the Workshop Affect, Compagnon artificiel, Interaction (Saint-Pierre d'Oléron, France)

POSTERS

- **Morgane Peirolo**, Amie Fairs, Guillaume Thierry, Elin Runnqvist (2022) Language induced changes of mind. Poster presented in June 2022 at the IMPRS Workshop from Max Planck Institute for Psycholinguistics (Nijmegen, The Netherlands)

EDUCATION

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| Max Planck Institute for Psycholinguistics (IMPRS fellowship)
Ph.D. program (supervisors: Pr. Antje MEYER and Dr. Candice FRANCES)
<i>Psychology of Language Department</i> | <i>September 2022-September 2026</i> |
| Institute of Language, Communication and the Brain (ILCB)
Master degree, <i>Department of Cognitive Science</i> | <i>September 2019-September 2021</i>
High honors |
| Université de Montréal (UdeM)
International program, <i>Department of Psychology</i> | <i>September 2018-May 2019</i> |
| Aix-Marseille université (AMU)
Higher Secondary Education, <i>Department of Psychology</i> | <i>September 2016-June 2019</i>
High honors |

SKILLS**Data acquisition:** Online behavioural experiments, electroencephalography, fMRI**Experiment programming:** FindingFive, E-prime, Presentation**Data analysis:** RStudio, MATLAB**Other software programs:** Elan, Praat, SPPAS, Audacity**Languages:** French (native), English (102/120 TOEFL, B2), Spanish (A2), Russian (A1)**RESEARCH EXPERIENCE****Collaboration on project using fMRI protocol***Neuroscience Institute of Marseille (INT)*

Marseille, France

January 2022-March 2022

Supervisor: Dr. Elin RUNNQVIST

Collaboration on Lydia DOROKHOVA's Ph.D. project Self-monitoring of errors in production: a global neurocognitive approach conducted in fMRI. This study is part of the ANR project Self-monitoring of language in production (supervised by Dr. Elin RUNNQVIST).

- Data collection

Language induced changes of mind: an ERP approach*Laboratoire Parole et Langage (LPL)*

Aix-en-Provence, France

September 2021-September 2022

Supervisor: Dr. Elin RUNNQVIST

This project is a follow-up of master's thesis *Language-induced changes of mind* using an EEG protocol to study ERPs involved in pre-attentive shifts in perception (vMMN) and lexicalization processes (P200, P400). This project obtained a total of €5200 funding (€2000 granted by the LPL through the Bonus Qualit  Recherche grant; €3200 granted by the ILCB as Demande de soutien projet scientifique).

- Experimental set-up and data collection of an EEG and behavioural experiment on E-prime
- EEG preprocessing on MATLAB
- Data analysis on RStudio (linear mixed models)

Master's thesis: Language induced changes of mind*Laboratoire Parole et Langage (LPL)*

Aix-en-Provence, France

January 2021-September 2021

Supervisors: Dr. Elin RUNNQVIST and Dr. Amie FAIRS

Collaborator: Dr. Guillaume THIERRY, Wales University

Investigated linguistic learning effects in the domain of colour perception by creating and running two online behavioural experiments testing the perceived similarity of colour pairs following a linguistic learning task.

- Conception and state-of-the-art on colour perception, second language learning and reorganization of the semantic space.
- Stimuli creation (pseudowords; easy to name colours; hard to name colours)
- Experimental set-up and data collection of two online behavioural experiments on FindingFive platform
- Experimental set-up of an EEG and behavioural experiment on E-prime
- Data analysis on RStudio (linear mixed models). Conducted analysis with linear-mixed model

Research mission*Laboratoire Parole et Langage (LPL)*

Aix-en-Provence, France

20 hours, March-May 2021

Supervisor: M.S. Auriane BOUDIN

This mission was part of Auriane BOUDIN master thesis, *A Multimodal Model for Predicting Conversational Feedbacks*.

- Feedback annotations in peer-to-peer interactions from two corpora (Cheese!, PACO) on Elan software
- Manual correction of automatic detection of nod dynamics on Elan software

Research project*Laboratoire Parole et Langage (LPL)*

Aix-en-Provence, France

November 2020-June 2021

Supervisor: Pr. James Sneed GERMAN

Studies have shown that cross-linguistically, consonants at the left edge of higher-level prosodic boundaries tend to be more forcefully articulated than those at lower-level boundaries, a phenomenon known as domain-initial strengthening. We tested whether similar effects occur in Turkish, using the Auto Segmental-Metrical model (Ipek Jun 2013, 2014) as the basis for assessing boundary strength.

- Target words creation

- Verification of prosodic patterns
- Annotation of the recordings on Praat software

Research internship

Laboratoire des sciences de l'Information et des Systèmes (LIS)

Marseille, France
February 2021-September 2021

Supervisors: Dr. Magalie OCHS and Jean-Marie PERGANDI

This preliminary research was the first step toward a larger project named TRUENESS, aiming to implement adaptive behaviours in conversational agents. The goal of this experiment is to build awareness of participants regarding social discrimination through their interactions with a conversational agent in a virtual environment.

- State of the art on Forum-Theatre techniques in virtual environments.

Research internship

Institute of Language, Communication and the Brain (ILCB)

Marseille, France
June 2020-March 2021

Supervisor: Dr. Abdellah FOURTASSI

Group CoCoDev: Computational Communication and Development CocoDev (Computational communication and Development) is an interdisciplinary research group investigating how children construct linguistic and conceptual knowledge through linguistic communication. This research takes part in the CocoDev project by investigating the question-answer dynamics of child-caregiver interactions.

- Elaboration of the classification used for child-caregiver sequences of questions (initiation, response, follow-up), elaboration of an annotation manual
- Annotation of question-based interactions between child and caregiver, from two corpora (Paris, Yamaguchi) on the platform MACANNOT
- Analysis of successful versus failed exchange as a function of question type, response quality, and (in)contingent follow-up

Master's internship

Laboratoire Parole et Langage (LPL)

Aix-en-Provence, France
November 2019-June 2020

Supervisors: Pr. Christine MEUNIER Christine and Dr. Brigitte BIGI

Polish, French and English languages display significant differences in their phonological inventory. Our goal was to quantify their theoretical articulatory positions during spontaneous speech production, to compare them with phoneme frequencies extracted from three corpora.

- Measured theoretical articulatory positions in spontaneous speech, for three languages (French, Polish, English).
- Compared phoneme frequencies extracted from three corpora to theoretical positions to determine their articulatory overlap.

Research mission

Laboratoire Parole et Langage (LPL)

Aix-en-Provence, France
150 hours, March 2020-June 2020

Supervisor: Ph.D. Mary AMOYAL

This mission was part of Mary AMOYAL research thesis entitled *Impact of Common Ground on conversation dynamics through a smile analysis occurring during thematic transitions*.

- Thematic transitions and themes annotations in peer-to-peer interactions from two corpora (Cheese!, PACO) on Praat.
- Manual correction of SMAD tool (automatic detection of smile dynamics) on Elan.
- Smile annotations based on the Smile Intensity Scale (E. Gironzetti).

Research mission

Institute of Language, Communication and the Brain (ILCB)

Marseille, France
10 hours, March 2020

Supervisor: Dr. Philippe BLACHE

ACORFORmed project

This annotation campaign was conducted under the ACORFORmed project: the goal is to train doctors to break bad news in difficult situations thanks to a conversational agent embodying a virtual patient.

- Corpus annotation of interactions in a medical context: labeling of speaking turns.

Observatory internship

Pole 3C Saint Charles

Marseille, France
30 hours, November 2017

Supervisor: Pr. Dr. Vincent HOK

Discovery of research projects and scientific tools (NIRS, fMRI, rodent exploratory maze).

SUPERVISION

- Supervision of Fadilah HANDAYANI** Aix-en-Provence, France
Laboratoire Parole et Langage (LPL) 400 hours, January-July 2022
Co-supervision of a Master student in Cognitive Science, First year (Co-supervisor: Dr. Elin RUNNQVIST).
- Supervision of Andrea TABARY** Aix-en-Provence, France
Laboratoire Parole et Langage (LPL) 30 hours, July 2022
Supervision of a student during a mission of annotation (acoustic stimuli from behavioural data).
- Supervision of Kevin NGUYEN** Aix-en-Provence, France
Laboratoire Parole et Langage (LPL) 120 hours, January-May 2022
Co-supervision of a Master student in Cognitive Science, First year (Co-supervisor: Dr. Elin RUNNQVIST).
- Supervision of Ines EL KHORASSANI** Aix-en-Provence, France
Laboratoire Parole et Langage (LPL) 80 hours, January-April 2022
Co-supervision of an undergraduate student in Psychology, Third year (Co-supervisor: Dr. Elin RUNNQVIST).

TEAMWORK

- Co-secretary of the Max Planck PhD net** Started March 2023
Max Planck Institutes
- Co-organizer of a scientific public event** Nijmegen
MPI Open dag 13th May 2023
- Co-organizer of APERO research team** Aix-en-Provence
Group REaDY: Représentations et Dynamiques November 2021-June 2022
Coordination and scheduling of research meetings of the *Action and PERceptiOn of language* group (LPL and INS labs) with Ph.D. Emilia KERR and R.A. Bissera IVANOVA.
- Researcher Support Volunteer** Online
FindingFive November 2021-March 2022
Executive director: Dr. Ting QIAN
Volunteering for a non-profit platform dedicated to online experiments.
 - Monitoring incoming help tickets and new forum posts.
 - Developing and testing coding solutions.
 - Identifying researcher needs based on help queries.
- Co-organizer of a cognitive science workshop** Marseille, France
Institute of Language, Communication and the Brain (ILCB) 18th March 2022
- Co-organizer of a cognitive science workshop** Marseille, France
Understanding social interactions: implications for health and society 27th-28th January 2021

SUMMER SCHOOLS AND ADDITIONAL COURSES

- Workshop Git basics** Nijmegen, The Netherlands
Max Planck Institute for Psycholinguistics 3rd June 2022
Introductory classes to Git and Github.
- Workshop R Shiny** Aix-en-Provence, France
Aix-Marseille université 8th October 2021
Introductory classes to RStudio Shiny package.
- ILCB summer school** Marseille, France
Institute of Language, Communication and the Brain 2nd-6th September 2019
Introductory classes to core disciplines of cognitive science: neuroscience and behaviour; language and cognition; applied mathematics; statistics and networks; computer science; automatic learning.