

# MORGANE PEIROLO

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## CONFERENCE ARTICLES

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- 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 ?. 6<sup>th</sup> joint conference Workshop on Speech (JEP, 33<sup>th</sup> edition), Automatic Processing of Natural Languages (TALN, 27<sup>th</sup> edition) <https://hal.archives-ouvertes.fr/hal-02798569v3/document>

## ARTICLES IN PREPARATION

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- **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

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

## TALKS

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- **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

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- **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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<b>Max Planck Institute for Psycholinguistics (IMPRS)</b> Ph.D. program (supervisors: Pr. Dr. Falk HUETTIG and Dr. Laura SPEED) <i>Psychology of Language Department</i>	<i>September 2022-September 2026</i>
<b>Institute of Language, Communication and the Brain (ILCB)</b> Master degree, <i>Department of Cognitive Science</i>	<i>September 2019-September 2021</i> High honors
<b>Université de Montréal (UdeM)</b> International program, <i>Department of Psychology</i>	<i>September 2018-May 2019</i>
<b>Aix-Marseille université (AMU)</b> 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)*

Supervisors: Dr. Magalie OCHS and Jean-Marie PERGANDI

Marseille, France  
February 2021-September 2021

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)*

Supervisor: Dr. Abdellah FOURTASSI

Marseille, France  
June 2020-March 2021

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)*

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

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

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)*

Supervisor: Ph.D. Mary AMOYAL

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

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)*

Supervisor: Dr. Philippe BLACHE

Marseille, France  
10 hours, March 2020

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*

Supervisor: Pr. Dr. Vincent HOK

Marseille, France  
30 hours, November 2017

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

## SUPERVISION

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### Supervision of Fadilah HANDAYANI

*Laboratoire Parole et Langage (LPL)*

Aix-en-Provence, France  
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

*Laboratoire Parole et Langage (LPL)*

Aix-en-Provence, France  
30 hours, July 2022

Supervision of a student during a mission of annotation (acoustic stimuli from behavioural data).

### Supervision of Kevin NGUYEN

*Laboratoire Parole et Langage (LPL)*

Aix-en-Provence, France  
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

*Laboratoire Parole et Langage (LPL)*

Aix-en-Provence, France  
80 hours, January-April 2022

Co-supervision of an undergraduate student in Psychology, Third year (Co-supervisor: Dr. Elin RUNNQVIST).

## TEAMWORK

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### Co-coordinator of a public research event

*MPI Intro day*

Nijmegen  
13<sup>th</sup> May 2023

### Co-organizer of APERO research team

*Group REaDY: Représentations et Dynamiques*

Aix-en-Provence  
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

*FindingFive*

Online  
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

*Institute of Language, Communication and the Brain (ILCB)*

Marseille, France  
18<sup>th</sup> March 2022

### Co-organizer of a cognitive science workshop

*Understanding social interactions: implications for health and society*

Marseille, France  
27<sup>th</sup>-28<sup>th</sup> January 2021

## SUMMER SCHOOLS AND ADDITIONAL COURSES

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### Workshop Git basics

*Max Planck Institute for Psycholinguistics*

Nijmegen, The Netherlands  
3<sup>rd</sup> June 2022

Introductory classes to Git and Github.

### Workshop R Shiny

*Aix-Marseille université*

Aix-en-Provence, France  
8<sup>th</sup> October 2021

Introductory classes to RStudio Shiny package.

### ILCB summer school

*Institute of Language, Communication and the Brain*

Marseille, France  
2<sup>nd</sup>-6<sup>th</sup> 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.

### Prague summer school

*Behavioral Economics and Psychology School*

Praha, Czech Republic  
4<sup>th</sup>-11<sup>th</sup> July 2018

Introductory classes to behavioural aspects of decision-making and experimental psychology.