

## ABOUT ME


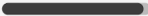


After graduating from the Ecole Centrale de Lille Engineering School, I completed a second MSc in Cognitive Science and am now working towards the completion of a PhD applying NLP and multimodal learning to natural conversation understanding.

## CONTACT

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## SKILLS

### LANGUAGES

French   
English   
German   
Japanese 

### PROGRAMMING

Python, Bash  
Web (HTML/CSS/JS)  
Web API, Web Scraping  
Databases (SQL)  
Code versioning (Git)

### DATA ANALYSIS / MACHINE LEARNING

Python *Scikit-Learn, Pandas*  
*Keras, Pytorch*  
R

### DATA VISUALISATION

Tableau  
Python *Matplotlib, Seaborn*

### PROJECT MANAGEMENT

Functional Analysis  
Tools *Microsoft Office Suite,*  
*iWork, Google Drive, LaTeX*

## HOBBIES

Reading (Technological Watch),  
Music, Sports, Learning languages

# Eliot Maës

Engineer, Data Scientist, PhD Student

## EDUCATION

**Aix-Marseille University | PhD Student** *Aix-Marseille, France, since Oct. 2021*  
**Research Topic:** *Multimodal Learning for information transfer modelling in natural conversation*  
**Supervision:** *Laboratoire d'Informatique et Systèmes (LIS), TALEP team*

**Aix-Marseille University | Master's degree in Cognitive Science**  
**Major:** *Language, Communication and the Brain* *Aix-Marseille, France, 2019-2021*  
**Internships:** *(supervision: Institute of Language, Communication and the Brain)*

- Neurolinguistic study of Human-Robot communications (with the Institut de Neurosciences de la Timone)*
- Analysis and automatic prediction of speech acts on child-parent corpora from the CHILDES databank*
- Multimodal prediction of turn-taking in natural conversation*

**Ecole Centrale de Lille | Master's degree in General Engineering**  
**Major:** *Decision & Data Analysis* / **Minor:** *Research* *Lille, France, 2014-2017*  
**Final year project:** *design and development of a platform (start-up project) aiming at interconnecting people around projects; R&D to assess the possibility of implementing recommender systems on the platform.*  
**Research project:** *study of color steganalysis (supervision: CRiStAL laboratory)*  
**Final year internship:** *Doshisha University - Kyotanabe, Kyoto, Japon*  
*Applied research under the supervision of a PhD student, with the aim of designing new methods for Machine Learning Classification tasks. Focus on procedures to select samples around a boundary (state of the art, design, implementation of such techniques); development of a Python library gathering tools for the laboratory.*

**Lycée Saint Louis | CPGE, MP\*- Info** *Paris, France, 2012-2014*

## PUBLICATIONS

Blache, P., Antoine, S., de Jong, D., Huttner, L. M., Kerr, E., Legou, T., ... & François, C. (2022). The Badalona Corpus An Audio, Video and Neuro-Physiological Conversational Dataset. In *Language Resources and Evaluation Conference*.

Nikolaus, M., Maes, E., Auguste, J., Prévot, L., & Fournassi, A. (2021). Large-scale study of speech acts' development in early childhood.

Nikolaus, M., Maes, J., & Fournassi, A. (2021, July). Modeling speech act development in early childhood: the role of frequency and linguistic cues. In *43rd Annual Meeting of the Cognitive Science Society*.

Nikolaus, M., Maes, J., Auguste, J., Prevot, L., & Fournassi, A. (2021, July). Large-scale study of speech acts' development using automatic labelling. In *Proceedings of the 43rd annual meeting of the cognitive science society*.

Hallart, C., Maes, J., Spatola, N., Prévot, L., & Chaminade, T. (2021). Comparaison linguistique et neuro-physiologique de conversations humain humain et humain robot. *Revue TAL*, 61(3), 69-93.

Ha, D., Maes, J., Tomotoshi, Y., Melle, C., Watanabe, H., Katagiri, S., & Ohsaki, M. (2017). A class boundary selection criterion for classification. In *Proceedings of IPSJ Kansai-Branch Convention 2017*.

## PROFESSIONAL EXPERIENCE

**CapGemini | Data Consultant** *Lille, France, Jan. 2018 - Aug. 2019*  
*Innovation Lab: NLP analysis of RSS feeds to add trends prediction to a fashion chatbot.*  
*Kiabi: Dashboard development with Tableau; Algorithm development for the prediction of, among others, customer churn; Image segmentation for clothing retrieval in images.*

**Wavestone | IT Consulting, Intern** *Paris, France, May. 2016 - Sep. 2016*  
*Wavestone IT System Department, ERP Upgrade Project, QA engineering team.*