

PhD student passionate about Artificial and Natural Intelligence currently focusing on Spoken Language Understanding.

Education

- 2021 - 2024 **Philosophiae Doctorate**, *Université d'Avignon*.
Research on End-to-End Spoken Language Understanding systems for Task-Oriented Dialogues.
 - Designing a contextual structured semantic annotation scheme for task-oriented dialogue dataset.
 - Ranking 1st in the "Speech Aware" Dialogue State Tracking Challenge (DSTC11).
 - Communicating results in top-tier conferences (ACL, InterSpeech).
- 2019 - 2021 **M.Sc. in Industrial and Applied Mathematics**, *Université Grenoble Alpes*.
Majors : Advanced statistics, Bayesian inference, Combinatorial optimization, Information retrieval and visualization,
Minors : Financial assessment, Marketing
- 2018 - 2019 **Bachelor's degree**, *Grenoble INP - ENSIMAG*, Grenoble.
Majors : Cybersecurity, Data structures, Language Theory, Operations research and Statistics
Minors : Economy, Innovation management
- 2016 - 2018 **Preparatory classes**, *Champollion*, Grenoble.
Intensive two year preparation for the national competitive exams to join Engineering Schools.

Experience

- 2021 - 2024 **PhD Thesis**, *Orange*.
Contributing to the expertise of the multimedia content processing team.
 - Sharing outcomes of my research and discussing their production applicability.
 - Performing benchmarks of different libraries and models.
- Mars - Sept 2021 **Research internship**, *Orange*.
Behavioral analysis of social media recommendation systems and polarization simulation.
- Juin - Sept 2020 **Data Science internship**, *Homiwoo*.
Building a visualisation platform to better understand the biases in deep learning models predicting real estate prices.
- Fev - Mars 2020 **Kaggle Challenge**.
NLP tweet classification model for disaster detection.
- Janvier 2020 **Projet Génie Logiciel**, *Grenoble INP - ENSIMAG*.
Building a compiler for a subset of Java with four other students.

Skills

Programming

- Full competency** : Python Machine Learning (Numpy, Pandas, scikit-learn, Keras, PyTorch) and visualization (seaborn, plotly, altair), R
- Partial competency** : Bash, Java (standard libraries), C++ (standard libraries and Qt), C, Docker, Slurm
- Basic competency** : Matlab, SQL

Workplace

- Languages** : Fluent in both English and French, German and Spanish basics
- Soft skills** : Open-mindedness, rigor and communication
- Office software** : \LaTeX , Microsoft suite, Gsuite
- Organisation** : Trello and Jira basics
- Development** : Unix, Git, Jupyter, JetBrains, Rstudio and Visual Studio Code

Hobbies

- Sports** Rugby (National tournaments between 14 and 20 y.o.), ski, snowboard, windsurf, kitesurf and Water-Polo
- Travels** Austria, Belgium, Cuba, Germany, Greece, Italy, Morocco, Norway, Portugal, Spain, United States
- Expatriation** Madagascar (3 years), South Africa (3 years), United Kingdom (1 year)
- Epistemology** Developing my critical awareness