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**Maxime MÉLOUX**  
French nationality  
27 years old

## Second year MSc student in Natural Language Processing

### + EXPERIENCE AND VOLUNTEERING

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Mar – Aug 2023 **Lab intern:** Cost-efficient continual learning for large pre-trained language models.  
(5 months)

LORIA / Nancy, FRANCE

Sep 2021 – Juin 2022 **Tutor** for MSc students in Language Sciences. Subjects involved: Python, Formal logic and Data Science.  
(30h contract)

University of Lorraine / Nancy, FRANCE

Feb 2020 – Aug 2021 **Associate** in the project "Research in Natural Language Processing". Conducted various NLP and machine learning tasks for the development of Samsung products.

Samsung Electronics & Adam Mickiewicz University / Poznań, POLAND

May 2019 (3 days) **Volunteer:** Helped organize the 9th Language & Technology Conference in Poznań.

Poznań, POLAND

Jun – Aug 2016 **Intern:** Algorithmically generated and filtered a database of over a million pictures of celebrities with a 0.1% error rate to train a facial recognition algorithm.  
(8 weeks + 1)

id3 Technologies / Le Fontanil-Cornillon (Grenoble), FRANCE

### + EDUCATION

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Sep 2022 – present **MSc** in Natural Language Processing  
Valedictorian, holder of the ORION scholarship holder.

Software project Web application for French vowel pronunciation training.

Supervised project Corpus analysis of the ideological evolution of American scholars in law and economics. In cooperation with the BETA lab (Nancy).

IDMC, University of Lorraine / Nancy, FRANCE

Sep 2017 – Sep 2020 **BA in Polish studies** – pass with distinction

Third year: Erasmus exchange (Adam Mickiewicz University, Pologne)

Université Charles de Gaulle – Lille 3 / Villeneuve d'Ascq, FRANCE

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Sep 2014 – Sep 2017 **BSc in Engineering** – Computer Science & Applied Mathematics

Main projects	<i>Operating system kernel (C/asm x86)</i>	<i>Image edge smoothing (C)</i>
	<i>Object-oriented compiler (ANTLR, Java)</i>	<i>3D karting game (C++/OpenGL)</i>
	<i>Chess tournament manager (MySQL)</i>	<i>MIPS interpreter (VHDL)</i>
	Ensimag / Grenoble, FRANCE	

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Sept 2012 – Juin 2014 **Preparatory classes to higher schools (CPGE)**, computer science path.

Lycée Blaise Pascal / Clermont-Ferrand, FRANCE

## + PUBLICATIONS & CONFERENCES

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INEM 2023 – Luchtmann, M., Méloux, M. (2022). The economist, the judge, and the internet: A quantitative analysis of the Becker-Posner blog, 2004-2014. [Presentation]

eKNOW 2022 – Kaszefski-Yaschuk, S., Keenan, J., Khasanova, A. & Méloux, M. (2022). Newsjam: An Multilingual Summarization Tool for News Articles. *Best Paper Award*

ICASSP 2022 – Kubis, M., Méloux, M., Skorzewski, P., Lewandowski, M., Jho, G., & Park, H. (2022). Part-of-speech models compression methods for on-device grapheme-to-phoneme conversion. <https://doi.org/10.1109/icassp43922.2022.9746710>

## + LANGUAGES

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**French:** Native (C2)

**English:** Full fluency (TOEIC 990/990, C1-C2)

**Polish:** Advanced (B2 – C1)

**German:** Intermediate (B1)

**Chinese:** Beginner (A1 – A2)

**Spanish, Russian:** Basic knowledge (A1)

## + TECHNICAL SKILLS

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Languages **Python 3, C, JavaScript, HTML5/CSS3**, C++, C#, Java, Bash, asm x86, node.js, LaTeX, SQL, R

Software & IDEs Vim, Pycharm, Eclipse, Visual Studio, IntelliJ IDEA, Docker, Git, Maven, Unix suite, Libre/MS Office...

Libraries Pytorch, transformers, peft, flair, pandas, spaCy, numpy, jQuery...

## + HOBBIES AND OTHER SKILLS

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Programming projects: language learning help tools, optimizers/simulators for video games.

"Ethical hacking" and computer security awareness (conferences, challenges)

Open-source cartography for humanitarian purposes (Humanitarian OpenStreetMap Team)

Hobbies: Mountaineering, music (accordion, guitar)