

Mathieu Lai-king

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PROFESSIONAL PROFILE

PhD in Computer Science from Université Paris Saclay. Specialized in NLP and biomedical text mining. Seeking a PostDoc, Research Scientist, or Data Scientist position.

EDUCATION

Université Paris Saclay

Paris, France

PhD in Natural Language Processing (NLP)

Feb 2022 – Apr 2025

Supervisors: Patrick Paroubek, Thierry Hamon

Developed novel methods for automatic quality assessment of biomedical research articles using NLP and machine learning.

Participated in international conferences and advanced training : ACL 2024, TALN 2023, DLO-JZ (Optimised deep learning training on Jean-Zay, CNRS' supercomputer), ALPS 2023 Winter School.

CPE Lyon

Lyon, France

MSc. in Computer Science (Diplôme d'ingénieur)

Sep 2017 – Jul 2021

GPA : 3.732/4.0

EXPERIENCE

SEGULA Technologies

Lyon, France

Machine Learning / NLP Engineer

Feb 2021 – Jul 2021

- Designed and implemented NLP pipelines (preprocessing, embedding, clustering, topic modeling) to analyze customer service data and identify recurrent issues.
- Delivered actionable insights to business stakeholders, improving customer support processes.

Fraunhofer IPK

Berlin, Germany

Machine Learning R&D Intern

Jul 2019 – Jun 2020

- Developed ML / NLP / Computer Vision solutions for extracting and comparing product requirements from technical documents.
- Contributed to the development of a web-based project management tool (Java, JSF) for internal use.

SKILLS

General: Statistics, Machine Learning, Deep Learning, Natural Language Processing

Programming: Python, Java, Bash, OOP, Design patterns, Git, Docker, CI/CD

NLP/ML: Pytorch, Transformers, vLLM, W&B, accelerate, deepspeed, spacy, stanza, nltk, Sentence Transformers, datasets, scikit-learn, smolagents, llamaindex, LangGraph

Web/DB: React, NodeJs, SpringFramework, MySQL, PostgreSQL, gradio

CERTIFICATES

Natural Language Processing Specialization

Dec 2021

Coursera

Certificate

Cambridge C1 Advanced

Dec 2020

Cambridge University Press & Assessment

Certificate

PUBLICATIONS

KEEPHA at n2c2 2022: Track 1 | Lisa Raithel, Faith W Mutinda, Gabriel HB Andrade, Hui-Syuan Yeh, Tomohiro Nishiyama, Mathieu Lai-King, Shuntaro Yada, Roland Roller, Cyril Grouin, Agata Savary, Aurélie Névéol, Thomas Lavergne, Eiji Aramaki, Sebastian Möller, Yuji Matsumoto, Pierre Zweigenbaum | n2c2 Shared Task, 2022

Pre-training data selection for biomedical domain adaptation using journal impact metrics | Mathieu Lai-king, Patrick Paroubek| BioNLP@ACL2024, 2024

Evaluation of Clinical Trials Reporting Quality using Large Language Models | Mathieu Lai-king, Patrick Paroubek| TAL 65-2, 2024

Quality of Research Articles and Neural Language Models: Applications to the Biomedical Domain | Mathieu Lai-king | Université Paris Saclay, 2025

LANGUAGES

French (Native), English (Fluent), Japanese (Beginner)

VOLUNTEERING

CPE Lyon Student Union (BDE)

Event Team

Lyon, France

Feb 2018 – Feb 2019

- Organized student events: integration weekend (500 students), ski week, afterworks, parties.

CPE Lyon Sport Union (BDE)

Tournament responsible

Lyon, France

Feb 2018 – Feb 2019

- Organized sport tournaments for students as well as participation to the TOSS (biggest national student sports tournament in France)