

Yves Ferstler

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Professional Summary

Aspiring PhD candidate specializing in Artificial Intelligence and Natural Language Processing (NLP). Passionate about advancing Transformer architectures and large pre-trained models to address complex language understanding tasks.

Education

MSc. Computer Science, Specialization in Artificial Intelligence, Expected 12/2025

University of Quebec in Montreal, Canada

- Thesis: *Risk detection in mental health through sentiment analysis* (Advisor: Marie-Jean Meurs, Research Lab: CIRST)
- Key courses: Machine Learning, Algorithmic and Complexity, Natural Language Processing (NLP), Introduction to Research in Computer Science

Bachelor: Computer Science, 01/2023

University of Luxembourg

- Extensive coursework and practical projects in theoretical and applied computer science.

Research Experience

Research Project Assistant, University of Quebec in Montreal, Canada

05/2024 – Present

- Designing and implementing Transformer-based models for automatic speech recognition, transcription error correction, and detection of mental health symptoms.
- Collaborating with psychiatry professionals to evaluate model outputs and improve clinical usability.
- Technologies: Python, NLP, Speech/Audio Processing

Research Support Assistant, University of Luxembourg, Luxembourg

09/2022 – 09/2023

- Developed NLP-based autonomous food recommendation agent with tailored nutritional advice.
- Contributed to a publication on explainability in AI.
- Technologies: NLP, XAI, Python

Research Assistant, University of Luxembourg, Luxembourg

01/2021 – 01/2022

- Created an intelligent web-based chatbot for preliminary COVID-19 symptom detection.
- Technologies: AI, NLP, Web Development

Publications

Published Papers

- **Ferstler, Yves**, C. Lavoie, and M.-J. Meurs, “Détecter des comportements associés aux troubles alimentaires par l’analyse automatique des publications textuelles en ligne,” in *Actes de CORIA-TALN-RJCRI-RECITAL 2025. Actes des 32ème Conférence sur le Traitement Automatique des Langues Naturelles (TALN), volume 1 : articles scientifiques originaux*, Marseille, France: Association pour le Traitement Automatique des Langues, Jun. 2025, pp. 206–217. [Online]. Available: <https://talnarchives.atala.org/TALN/TALN-2025/136.pdf>
- **Ferstler, Yves**, C. Lavoie, and M.-J. Meurs, “Sélection ordonnée de phrases associées aux symptômes de la dépression par classification zéro-coup,” in *Actes de CORIA-TALN-RJCRI-RECITAL 2025. Actes de l’atelier Traitement du langage médical à l’époque des LLMs 2025 (MLP-LLM)*, Marseille, France: Association pour le Traitement Automatique des Langues, Jun. 2025, pp. 42–48. [Online]. Available: <https://talnarchives.atala.org/ateliers/2025/MLP-LLM/203.pdf>
- Maupomé, Diego and **Ferstler, Yves** and Mosser, Sébastien and Meurs, Marie-Jean, “Automatically finding evidence, predicting answers in mental health self-report questionnaires,” in *eRisk 2024 Workshop at the 15th International Conference of the CLEF Association, CLEF 2024, Grenoble, France, September 9–12, 2024*, 2024, pp. 841–850
- Tessa, Melissa and Abchiche, Sarah and **Ferstler, Yves Claude** and Tchappi, Igor and Benatchba, Karima and Najjar, Amro, “Enhancing Explainability in AI: Food Recommender System Use Case,” in *Proceedings of the 11th International Conference on Human-Agent Interaction*, ser. HAI ’23, Gothenburg, Sweden: Association for Computing Machinery, 2023, pp. 395–397, ISBN: 9798400708244. DOI: 10.1145/3623809.3623938

Ongoing Papers

- Soulas, Thomas and Tsilinchuk, Valentyna and Lavoie, Catherine and Chahdi, Yassine and **Ferstler, Yves** and Laperrière, Gaëlle and Meurs, Marie-Jean, “Calame: An Open Source Transcription, Diarization and Anonymisation Tool,” **Writting**, targeted May 2026, 2026
- G. Laperrière and **Ferstler, Yves** and Meurs, Marie-Jean, “Fine-tuning ASR models on Quebec French,” **Writting**, targeted May 2026, 2026

Skills

- **Programming:** Python, Java, C++
- **Deep Learning Frameworks:** PyTorch, Hugging Face Transformers
- **NLP Tools & Libraries:** NLTK, SpaCy, NumPy
- **Research Competencies:** NLP, LLM, Transformer Architectures, Ethic AI
- **Responsible AI:** Participant in the NSERC Program on Responsible Development of Artificial Intelligence

Languages

- English: Advanced
- French: Native