

Youri Peskine

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SUMMARY

Recent PhD graduate from Sorbonne University with a proven track record of research and publication in top-tier venues. Looking for a Researcher Scientist role to apply a strong background in deep learning for NLP, computer vision, audio signal processing, and knowledge graphs. Expertise in developing and training models for complex tasks, including misinformation detection, social discourse analysis, and medical image analysis. Passionate about AI research and its applications.

RESEARCH EXPERIENCE

PhD Student - EURECOM, France

Sep. 2021 - Mar. 2025

Thesis: Using Knowledge Graphs to Detect and Explain Misinformation Spread on the Web.

Conducted research on NLP applied for misinformation detection. Used both machine learning and knowledge engineering tools. Participated (and won) in multiple competitive research challenges. Published in top-tier conferences such as EMNLP, COLING and ISWC, earning multiple best paper awards. Supervised master students for semester projects.

Master Research Student - Polytechnique Montréal, Canada

Jan. 2019 - Aug. 2020

Thesis: Automatic Screening of Diabetic Retinopathy in Fundus Images Using Deep Learning

Trained models to detect diabetic retinopathy in medical images. Developed a novel technique to assess the quality of medical images. Teaching assistant for undergraduate students for image & signal processing class.

EDUCATION

Sorbonne University - EURECOM

2021 - 2025

PhD in Computer Science

Ecole Polytechnique de Montréal

2018 - 2020

Masters in Computer Science

Relevant Courses & Projects: Deep Learning, Image & Signal Processing, Multimedia Applications, Augmented & Virtual Reality. Project on implementing DDQN for reinforcement learning agents, Project on creating a video game in Unity using VR technologies (HTC Vive, CAVE)

Institut Polytechnique de Paris - Télécom SudParis

2016 - 2020

French Engineering Diploma

Relevant Courses & Projects: Deep Statistics, Signal Processing, High Tech Imaging. Project on using real time audio and signal processing tools to perform music information retrieval for teaching purposes.

PUBLICATIONS

- [1] Y. Peskine, "Using Knowledge Graph To Detect And Explain Misinformation Spread On The Web," PhD Thesis, Sorbonne Université, Mar. 2025.
- [2] A. Flaccavento, Y. Peskine, P. Papotti, R. Torlone, and R. Troncy, "Automated detection of tropes in short texts," in *The 31st International Conference on Computational Linguistics (COLING)*, 2025.

- [3] G. Burel, M. Mensio, Y. Peskine, R. Troncy, P. Papotti, and H. Alani, “Cimplekg: A continuously updated knowledge graph on misinformation, factors and fact-checks,” in *The Semantic Web – ISWC 2024: 23rd International Semantic Web Conference*, 2024.
- [4] Y. Peskine, R. Troncy, and P. Papotti, “Eurecom at semeval-2024 task 4: Hierarchical loss and model ensembling in detecting persuasion techniques,” in *Proceedings of the 18th International Workshop on Semantic Evaluation, SemEval*, 2024.
- [5] Y. Peskine, D. Korenčić, I. Grubisic, P. Papotti, R. Troncy, and P. Rosso, “Definitions Matter: Guiding GPT for Multi-label Classification,” in *Findings of the Association for Computational Linguistics: EMNLP*, 2023.
- [6] Y. Peskine, R. Troncy, and P. Papotti, “Analyzing COVID-Related Social Discourse on Twitter using Emotion, Sentiment, Political Bias, Stance, Veracity and Conspiracy Theories,” in *3rd International Workshop on Knowledge Graphs for Online Discourse Analysis (BeyondFacts)*, 2023.
- [7] Y. Peskine, P. Papotti, and R. Troncy, “Detection of COVID-19-Related Conspiracy Theories in Tweets using Transformer-Based Models and Node Embedding Techniques,” in *MediaEval 2022, MediaEval Benchmarking Initiative for Multimedia Evaluation Workshop*, 2022.
- [8] Y. Peskine, G. Alfarano, I. Harrando, P. Papotti, and R. Troncy, “Detecting covid-19-related conspiracy theories in tweets,” in *MediaEval 2021, MediaEval Benchmarking Initiative for Multimedia Evaluation Workshop*, 2021.
- [9] Y. Peskine, “Dépistage automatique de la rétinopathie diabétique dans les images de fond d’oeil à l’aide de l’apprentissage profond,” M.S. thesis, Polytechnique Montréal, 2020.
- [10] Y. Peskine, M.-C. Boucher, and F. Cheriet, “An interpretable data-driven score for the assessment of fundus images quality,” in *Image Analysis and Recognition*, A. Campilho, F. Karray, and Z. Wang, Eds., 2020.

SKILLS

Programming Languages	Python, Java, C#, C++, C, Bash, SQL
AI/ML	PyTorch, Keras, Pandas, Scikit-learn, Hugging Face, Transformers, LangChain
Expertise	Deep Learning, Natural Language Processing, Computer Vision, Audio & Signal Processing, Reinforcement Learning, Knowledge Graphs

ACADEMIC AWARDS

Frugal AI Challenge Winning Submission, HuggingFace, 2025.
 Best Resource Paper Award, ISWC, 2024.
 Fake News Detection Challenge Winning Submission, MediaEval, Task 3, 2022.
 Best Paper Award, BeyondFacts Workshop (The Web Conference WWW), 2022.
 Fake News Detection Challenge Winning Submission, MediaEval, All tasks, 2021.
 French National Award “Prix André Blanc Lapierre”, SEE - Société de l’électricité, de l’électronique et des technologies de l’information et de la communication, 2020.