

TOM DEVYNCK

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PROFESSIONAL EXPERIENCE

- Doctoral Researcher — Deep Learning** October 2025 – Present
DAVID Lab (UVSQ) & LISN — Université Paris-Saclay Paris, France
- Research on energy-based methods for structured feature selection in deep networks (vision transformers and CNNs), targeting robustness and interpretability.
 - First-author publications at IJCAI 2026 and ESANN 2026 (see Publications).
 - Ongoing work on token pooling and group robustness in vision transformers.
- Data Scientist — Apprenticeship** September 2024 – September 2025
Aqsone Toulouse, France
- Project for CNES: detection of extreme winds on rocket launch sites.
 - R&D project on hierarchical text classification within the company's innovation lab.
 - Hands-on work with LLM technologies: NLP pipelines, LangChain, RAG.
- Data Analyst — Internship** May 2024 – August 2024
Médiamétrie Paris, France
- Developed unsupervised models to detect anomalous survey responses; co-authored a paper presented at ESRA 2025 and JMS 2025.
- Data Analyst — Internship** May 2022 – July 2022
La Cali Libourne, France
- Automated a Python tool for monitoring statistical studies.

PUBLICATIONS

IJCAI 2026: Energy-Regularized Spatial Masking: A Novel Approach to Enhancing Robustness and Interpretability.
T. Devynck, B. Faye, D. Bouchaffra, N. Lazaar, H. Azzag, M. Lebbah.

ESANN 2026: Energy-Based Dropout with Patch-Level Regularization.
T. Devynck, B. Faye, D. Bouchaffra, N. Lazaar, H. Azzag, M. Lebbah.

ESRA 2025: Detection of Sloppy Respondents in a Web Survey.
D. Maillot Tchofo, T. Devynck, F. Le Sager, L. Marec.

EDUCATION

- PhD in Computer Science — Deep Learning** 2025 – Present
Université Paris-Saclay Paris, France
- Master's in Econometrics and Statistics (Data Science) & Magistère** 2021 – 2025
Toulouse School of Economics Toulouse, France
- Master's in Financial and Computational Mathematics — Exchange Program** 2022 – 2023
Université de Montréal Montreal, Canada
- Double Bachelor's in Mathematics and Economics** 2019 – 2022
Toulouse School of Economics Toulouse, France

PERSONAL AND ACADEMIC PROJECTS

- ThinkYoung x Google Hackathon:** Finalist, built a chatbot to fight election disinformation with a TSE student team. (2024)
- Data Science Consultant (TSE Junior Études):** Predictive model for client portfolio management at ADDEV Materials (2024).

SKILLS

Deep Learning: PyTorch, Hugging Face, HPC training (SLURM, GPU clusters)
Programming: Python, Git, Linux/SSH, SQL, R
Languages: French (Native), English (C1)