Nathan Godey

PhD student

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Education

2021–now	**PhD in Natural Language Processing (final year)**, *Inria*, Paris
	"Cheap and efficient neural representations for textual data". Supervision: Éric de la Clergerie and Benoît Sagot.
2020–2021	**Master, Machine Learning**, *ENS Paris-Saclay*, Paris area, *GPA: 4.0 (17.3/20)*
	Deep Learning, NLP, Computer Vision, Optimal Transport, Neuroscience.
2017–2020	**Engineering Degree, Maths & CS**, *École des Ponts*, Paris area, *GPA: 3.65*
	Machine Learning, Algorithmics, Optimization, Probability, Statistics.

Publications

COLING 2024	*On the Scaling Laws of Geographical Representation in Language Models* **Nathan Godey**, Éric de la Clergerie, Benoît Sagot
ICLR 2024	*Headless Language Models: Learning without Predicting with Contrastive Weight Tying* **Nathan Godey**, Éric de la Clergerie, Benoît Sagot
EACL 2024	*Anisotropy Is Inherent to Self-Attention in Transformers* **Nathan Godey**, Éric de la Clergerie, Benoît Sagot
ACL 2023 SRW	*Is Anisotropy Inherent to Transformers?* **Nathan Godey**, Éric de la Clergerie, Benoît Sagot
EMNLP 2022	*MANTa: Efficient Gradient-Based Tokenization for Robust End-to-End Language Modeling* **Nathan Godey**, Roman Castagné, Éric de la Clergerie, Benoît Sagot

Teaching Experience

2023–2024	**Advanced NLP**, *Lecturer*, EPITA, Paris AI Masters
2022–2023	**Python for Mathematics**, *Teaching Assistant*, Sorbonne Université, Paris Undergrad
2021–2022	**Linear Algebra 2**, *Teaching Assistant*, Sorbonne Université, Paris Undergrad

Professional Experience

2021	**NLP Research intern**, *French Ministry of Defense*, Paris Low-resource NLP using self-training and cross-lingual alignment.
2020	**AI Engineer intern**, *Stellia AI*, Paris Chatbot and search engine development for an artificial teaching assistant.

Presentations

Seminars	○ DeepVoice seminar (Sorbonne Université) ○ PhD seminar (Inria)

Service

Reviewing	EMNLP 2022, ACL 2023, EMNLP 2023, EACL 2024, NAACL 2024.