Nathan Cornille

Curriculum Vitae

	Summary	July 2024	Conference paper , Conference on Language Modeling.
Computer Scientist (PhD graduate) with deep expertise in			Learning to Plan for Language Modeling from
AI, NLP, and representation learning, and an interest in applying this expertise to solve real-world problems.		NI I	Unlabeled Data
		November 2023	Journal paper , Entropy: Special Issue "Causality and Complex Systems".
	Working Experience		Causal Factor Disentanglement for Few-Shot
—— Industry			Domain Adaptation in Video Prediction
June 2025 –	Al Software Engineer, IntellectEU,	February 2022	Journal paper , Frontiers in Artificial Intelligence.
	Antwerp.	2022	Critical Analysis of Deconfounded Pretraining
Academic Research			to Improve Visio-Linguistic Models
Jan 2025	PhD computer science , Language Intelligence & Information Retrieval lab, KULeu-		ertations
3un 2020	ven, Leuven.	Jan 2025	PhD thesis, KULeuven, Leuven.
	Representation Learning, Causality, Natural		Representation Learning for Vision and Language
	Language Understanding, Neuromorphic Computing	June 2019	Master thesis, <i>KULeuven</i> , Leuven, 17/20.
— Teac	1 9		Analysis and Improvement of Named Entity
2018-2024	Teaching Assistant , <i>KULeuven</i> , Leuven.		Recognition for Biomedical Articles
2010 2021	Capita Selecta Artifical Intelligence (2024),		Education
	Natural Language Processing (2021, 2022,	2017–2019	Master computer science, KULeuven,
	2023), Object-Oriented Programming (2019, 2020, 2021), Science Communication (2021),	201. 2010	Leuven, Summa Cum Laude: 85.27% (Top
	Methodology of Informatics (2018,2019)		3% of 96 students).
2016 - 2018	Math tutor, Sagio vzw, Leuven.	-	Option Artificial Intelligence
Internships		Fall of 2018	Exchange semester , <i>Tsinghua University</i> , Beijing, 92.33% - 3.8 GPA.
Summer 2019	Associate Consultant Intern, Bain &	2014–2017	Bachelor engineering sciences, <i>KULeu-</i>
	Company, Brussels. Working on a European pricing strategy for a	2014 2017	ven, Leuven, Magna Cum Laude: 79.22%
	large consumer-goods company		(Top 10% of 326 students).
Summer 2018	Blockchain intern, IntellectEU, New York		Option Mechanics - Computer Science
	City.		Technical Skills
	Doing research into methods for privacy in per- missioned blockchains and automating financial	Programming	Python, Java, Bash
	message mapping	Languages	1 yelloli, Sava, Dasii
Summer 2017	Software developer, Irex Consulting,	Libraries	PyTorch, Numpy, Pandas, Matplotlib,
	Brussels. Developing an Android application and a web-		Lightning, slurm, scikit
	site.	Tools	Git, HPC usage, Excel, Latex
Summer 2015	Fundraiser, ONG Conseil, Antwerp.		Languages
	Asking people in the street to become supporters for Oxfam Solidarity.		Languages
		Dutch	Native
	Other	English	Fluent
	Post-PhD Travel.	French	Good Can hold conversations
Apr 2025	3-month travel through Argentina, Chile, Bolivia and Peru following doctoral studies.	Spanish	Limited Level B1-Breakthrough
	iivia and Ferti following doctoral studies.		Engagements
	Research Output	Board Of	An organisation that provides complemen-
—— Papers		European	tary education abroad for technology stu-
October 2024	Arxiv paper, Arxiv.	Students of	dents, as well as organising engineering and
	End-to-end Planner Training for Language	Technology	other competitions. I was the co-Main Organiser of the 2019 Summer Course, and
	Modeling		was the treasurer in 2017-2018.