Nathan Cornille

Curriculum Vitae

Research

Papers

October 2022	**(Under review) Conference paper**, *CLeaR (Causal Learning and Reasoning)*.
February 2022	**Journal paper**, *Frontiers in Artificial Intelligence.* Critical Analysis of Deconfounded Pretraining to Improve Visio-Linguistic Models

Presentations

November 2020	**Poster and flashtalk**, *From Neuroscience to Artificially Intelligent Systems*, Virtual. DIRT: Distributed Internal Regression Transformer
December 2019	**Oral and poster presentation**, *3rd Human Brain Project Curriculum Workshop on Cognitive Systems*, Glasgow. Improving Language Understanding in Machines through Anticipation

Dissertations

June 2019	**Master thesis**, *KULeuven*, Leuven, 17/20. Analysis and Improvement of Named Entity Recognition for Biomedical Articles

Education

2019–current (planned 2023)	**PhD computer science**, *Language Intelligence & Information Retrieval lab, KULeuven*, Leuven. Representation Learning, Causality, Natural Language Understanding, Neuromorphic Computing
2017–2019	**Master computer science**, *KULeuven*, Leuven, 85.27% (Top 3% of 96 students). Option Artificial Intelligence
Fall of 2018	**Exchange semester**, *Tsinghua University*, Beijing, 92.33% - 3.8 GPA.
2014–2017	**Bachelor engineering sciences**, *KULeuven*, Leuven, 79.22% (Top 10% of 326 students). Option Mechanics - Computer Science
2008–2014	**Secondary education**, *Sint-Michielscollege Brasschaat*, Brasschaat, 88.7%. Option Ancient Greek - Mathematics

Working Experience

Teaching

2018-2021	**Teaching Assistant**, *KULeuven*, Leuven. Natural Language Processing (2021, 2022), Object-Oriented Programming (2019, 2020, 2021), Science Communication (2021), Methodology of Informatics (2018,2019)
2016 - 2018	**Math tutor**, *Sagio vzw*, Leuven.

Industry

Summer 2019	**Associate Consultant Intern**, *Bain & Company*, Brussels. Working on a European pricing strategy for a large consumer-goods company
Summer 2018	**Blockchain intern**, *IntellectEU*, New York City. Doing research into methods for privacy in permissioned blockchains and automating financial message mapping
Summer 2017	**Software developer**, *Irex Consulting*, Brussels. Developing an Android application and a website.
Summer 2015	**Fundraiser**, *ONG Conseil*, Antwerp. Asking people in the street to become supporters for Oxfam Solidarity.

Languages

Dutch	Native	
English	Fluent	
French	Good	*Can hold conversations*
Spanish	Limited	*Limited understanding, speaking and writing (level A2-Waystage)*
German	Limited	*Decent understanding, limited speaking and writing*

Engagements

Board Of European Students of Technology	An organisation that provides complementary education abroad for technology students, as well as organising engineering and other competitions. I was the co-Main Organiser of the 2019 Summer Course, and was the treasurer in 2017-2018.