Jonathan Tonglet

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RESEARCH INTERESTS

NLU, NLG, Explainable AI, Multimodal & Multilingual Learning, Weak Supervision, Information Retrieval, Computational Social Science

EDUCATION

KU Leuven

- *M.Sc. Artificial Intelligence*   *September 2022 -June 2023*
  - Specialization in Speech and Language Technologies
  - Thesis: "Numerical Question Answering over Large Multimodal Financial Documents"
  - Courses : Linguistics & AI, Speech Recognition, Information Retrieval, Language Engineering

- *M.Sc. Business & Information Systems Engineering*   *September 2020 - June 2022*
  - Specialization in Data Science
  - Graduated *Summa Cum Laude* with an average of 85.84%
  - Thesis: "Predicting the Demographics of Twitter users with Programmatic Weak Supervision" Supervisor : Prof. Dr. Bart Baesens. Grade : 18.5/20. Received the LIRIS best master's thesis award
  - Courses : Machine Learning, NLP, Time Series, Operations Research, Software Architecture
  - Member of the Data Science and AI student society Emergent Leuven (2021-2022)

Politecnico di Milano

- *M.Sc. Computer Science & Engineering*   *September 2021 – February 2022*
  - Exchange semester in Fall 2021, average of 94.67%
  - Courses : Deep Learning, Recommender Systems, Multi-Agent Systems, Data & Information Quality

UCLouvain

- *B.Sc. Business Engineering*   *September 2017 - June 2020*
  - Complementary Major in Computer Science
  - Graduated *Magna Cum Laude* with an average of 85.6%
  - Courses : Calculus, Algebra, Statistics, Programming, Algorithmic, Economics, Econometrics, Physics
  - Member of the university Board of Directors (2019-2020)

RESEARCH EXPERIENCE

KU Leuven   *July 2022 - August 2022*
Collecting data and conducting experiments for a text classification benchmark study at the LIRIS group, under the supervision of Prof. Dr. Bart Baesens and Prof. Dr. Wouter Verbeke.

Statistics Flanders   *April 2021 – May 2022*
Research project on demographic selection bias correction in Twitter user samples, as part of a larger project on improving official statistics using social media data.

INDUSTRY EXPERIENCE

Telenet Group *June 2021 - August 2021*

Project on Explainable AI at Telenet, a major Belgian Telco company. Implemented a Counterfactual Explanation model to derive actionable insights from Churn models' output.

TALKS

Statistics Flanders Seminar on Data Science for Official Statistics (Leuven, Belgium) *May 2022*

HONORS

LIRIS award for Best Master's Thesis in Business & Information Systems Engineering *2022*

TEACHING

Probability – Teaching assistant for Prof. Dr. Johan Segers. Class of 35 first-year students. *Spring 2020*

TECHNICAL SKILLS

Proficient in Python (Scikit-Learn, TensorFlow, Transformers, PySpark), R, git

Notions of Java, SQL, ProLog

LANGUAGES

French (native) , English (IELTS 7.5, fluent), Dutch (fluent)