

## Education

English (C2), French (C2), German (C1)

### M.Sc. in Data Science

Université libre de Bruxelles (ULB), Faculty of Science (2024–)

- **Bayesian Inference with Fisher Information Divergence**  
Master's dissertation on discretised Fisher-divergence-based posteriors for intractable discrete likelihoods.
- **EMG-Based Joint Angle Prediction**  
Ensembling models and Domain Adversarial Neural Network on sEMG; ranked 2nd.

### M.Sc. and B.Sc. in Economics (M.Sc. Cum Laude)

Solvay Brussels School of Economics and Management (2014–2021)

Minor: Statistics and Econometrics

### Baccalauréat *Französisches Gymnasium zu Berlin* (2013)

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## Experience

### Machine Learning Research Assistant

KU Leuven, Faculty of Engineering Science (Chem and Tech) (2024–)

- Designed and trained YOLO-based object detection models for plastic item localisation in heterogeneous imaging conditions.
- Developed plastic-type classification models using cropped regions of interest with robustness constraints.
- Built an end-to-end prototype integrating detection, cropping, and classification packaged as modular Docker services.
- Established reusable ML data infrastructure enabling scalable experimentation.

### Senior Associate, Risk and Treasury Consulting

KPMG GmbH, Frankfurt (03/2024 – 10/2024)

- Supported ECB on-site interest-rate-risk inspections at State Street Bank Germany.
- Implemented ALM and interest-rate-risk frameworks including fund-term pricing.

### Supervisory Analyst, Banking Supervision

European Central Bank, Frankfurt (09/2021 – 09/2023)

- Built Python, SQL, Tableau, and GitLab pipelines automating inspection support and reporting.
  - Developed internal dashboards and analytics workflows reused across missions.
  - Implemented an NLP prototype to extract findings from supervisory documents.
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## Technical Skills

**ML and Data Science:** PyTorch, YOLO (Ultralytics), TensorFlow, scikit-learn, JAX, NumPy  
**Tools and Infrastructure:** Git, Docker, Label Studio, Polars, DuckDB, Apache Spark, Tableau  
**Cloud:** AWS S3 and IAM