

# Jasper Dekoninck

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## EDUCATION

**PhD Student | ETH Zürich** **Nov 2023 - Present**

- PhD Student at Secure, Reliable, and Intelligent Systems Lab under prof. Martin Vechev
- Working on various aspects related to LLMs/LMMs: robust evaluation, data contamination, controlled generation

**MSc Data Science | ETH Zürich** **Sep 2021 - Sep 2023**

- First student ever to graduate with perfect GPA (6.0 / 6.0)
- Master Thesis on Controlled Text Generation and Research Project on Quantum Circuit Synthesis published at major conferences (ICLR and ACM OOPSLA).

**BSc Mathematics | KU Leuven** **Sep 2018 - Sep 2021**

- Graduated Summa Cum Laude with compliments of the jury
- Part of double degree program

**BSc Physics | KU Leuven** **Sep 2018 - Sep 2021**

- Graduated Summa Cum Laude
  - Part of double degree program
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## EXPERIENCE

**Intern | Risk Concile** **Aug 2019, Aug 2020, Aug 2021**

- Internship during all three years of my Bachelor
  - Topics: portfolio optimization, volatility surface prediction, financial shock simulations
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## AWARDS

**Willi Studer Prize for Best MSc Data Science** **Oct 2024**

- 3000 CHF prize for highest-performing student in graduation class

**First Place of the Red Teaming Phase US PETs Prize Challenge** **May 2023**

- Leading a team to find vulnerabilities in proposed privacy enhanced technologies, winning first place and 60.000 USD.

**ETH-D Scholarship** **Sep 2021**

- Full scholarship (42000 CHF) for master studies at ETH Zürich

**Finalist Flemish and Junior Math Olympiad** **Jun 2015, Jun 2016, Jun 2017**

- Top 100 out of 11000 participating students reach the finals

**Bronze Medalist European Mathematical Cup** **Jun 2016**

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## ADDITIONAL INFORMATION

- **Languages:** English, Dutch
- **Relevant Courses (MSc):** Introduction to Mathematical Finance, Financial Economics
- **Programming Experience:** Python (most experience), JavaScript, HTML/CSS, C++
- **Strengths:** quick learning, disciplined, trustworthy

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## PUBLICATIONS

- SynthetiQ: Fast and Versatile Quantum Circuit Synthesis** **ACM OOPSLA '24**  
Anouk Paradis\*, Jasper Dekoninck\*, Benjamin Bichsel, Martin Vechev
- Controlled Text Generation via Language Model Arithmetic** **ICLR '24**  
Jasper Dekoninck, Marc Fischer, Luca Beurer-Kellner, Martin Vechev
- ConStat: Performance-Based Contamination Detection in Large Language Models** **NeurIPS '24**  
Jasper Dekoninck, Mark Niklas Müller, Martin Vechev
- Evading Data Contamination Detection for Language Models is (too) Easy** **Under Review**  
Jasper Dekoninck, Mark Niklas Müller, Maximilian Baader, Marc Fischer, Martin Vechev
- Polyrating: A Cost-Effective and Bias-Aware Rating System for LLM Evaluation** **Under Review**  
Jasper Dekoninck, Maximilian Baader, Martin Vechev
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## VOLUNTEERING WORK

- President | ETH Chess Club** **May 2023 - Present**
  - The ETH Chess Club organizes weekly chess events to promote chess
- Treasurer | ETH Chess Club** **May 2022 - May 2023**
  - The ETH Chess Club organizes weekly chess events to promote chess
- Core Organizer | Student Sustainability Week** **Aug 2021 - March 2022**
  - The Student Sustainability Week is a week with over 50 events on sustainability and more than 1500 participants.
- President | Overarching Education Council** **July 2020 - July 2021**
  - The Overarching Education Council represents more than 3500 students of the Faculty of Science of KU Leuven in various governing bodies.
- Board Member | Overarching Education Council** **July 2019 - July 2020**
  - The Overarching Education Council represents more than 3500 students of the Faculty of Science of KU Leuven in various governing bodies.
- Freshmen Representative and Public Relations | Wina** **July 2019 - July 2020**
  - Wina is the student organization for math, physics and computer science at KU Leuven.
- Student Representative | Educational Committee Mathematics** **Sep 2018 - July 2021**
  - The educational committee of mathematics governs all aspects of the Bachelor of Mathematics at KU Leuven.