Wojciech Anyszka

wa8157@princeton.edu 531 333 131 wanyszka.github.io wojciech-anyszka
wanyszka Google Scholar

Education

PhD **Princeton University**, Operations Research and Financial Engineering (ORFE) — Princeton, NJ, USA, Sept 2025 – present

MSc **University of Oxford**, Mathematical Sciences — Oxford, UK, Oct 2024 – June 2025
Distinction, ranked 3rd in cohort

BSc **University of Groningen**, Mathematics — Groningen, Netherlands, Sept 2020 – Nov 2023
Summa Cum Laude, Average: 9.7/10

BSc **University of Groningen**, Physics — Groningen, Netherlands, Sept 2021 – Nov 2023
Summa Cum Laude, Average: 9.6/10

BSc **University of Groningen**, Artificial Intelligence — Groningen, Netherlands, Sept 2020 – June 2024
Summa Cum Laude, Average: 9.5/10

Experience

KAUST (King Abdullah University of Science and Technology), Research Intern — Thuwal, Saudi Arabia, May 2024 – Sept 2024

- Worked in the Optimization and Machine Learning Lab under supervision of prof. Peter Richtárik
- Conducted theoretical research on Federated Learning focusing on convergence rates for a distributed asynchronous proximal method
- This work led to a publication (currently under review for NeurIPS)

University of Groningen, Teaching Assistant — Groningen, Netherlands, Nov 2022 – May 2024
Helped with the organization of a course, teaching tutorial classes, and grading homework assignments and exams

- Multivariable Analysis (22/23)
- Complex Analysis (22/23)
- Dynamical Systems (23/24)
- Quantum Physics 2 (22/23)
- Calculus 2 (22/23, 23/24)
- Calculus for CS (23/24)

Institute for Advanced Study, Summer Intern — Park City, UT, USA, July 2023 – Aug 2023
Undergraduate Summer School in Quantum Computation

Utrecht University, Summer Intern — Utrecht, Netherlands, Aug 2023 – Aug 2023
Summer School in Theoretical Physics

Skills

Programming: Proficient with Python (PyTorch, NumPy, Pandas, Scikit-learn, Matplotlib,…), good understanding of C

Languages: English (C2, fluent), Polish (native)

Publications

Tighter Performance Theory of FedExProx — Oct 2024
Wojciech Anyszka, Kaja Gruntkowska, Alexander Tyurin, Peter Richtárik
arxiv.org/abs/2410.15368

Towards an Approximation Theory of Observable Operator Models Apr 2024
Wojciech Anyszka
arxiv.org/abs/2404.12070

The Kepler Problem and Its Relation to Extremal Black Holes Nov 2023
Wojciech Anyszka
fse.studenttheses.ub.rug.nl/31614/1/bPHYS_2023_AnyszkaWJ.pdf

Extracurricular Activities

- StEP Ignite 2025—Oxford's student entrepreneurship programme run by Oxford University Innovation, EnSpire Oxford and Oxford Edge