

Sergey Yurkevich, MMSc, BBSc



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Education

University of Vienna

PhD, Mathematics

📅 03/2020 – ongoing 📍 Vienna, Austria

- Specializations:
 - Algebra
 - Number theory
 - Discrete mathematics

Vienna University of Economics and Business (WU Vienna)

MSc, Quantitative Finance

📅 09/2018 – 09/2020 📍 Vienna, Austria

- Current GPA: 1.05
- Scholarship for outstanding performance 2018/19

University of Vienna

MSc, Mathematics

📅 09/2017 – 01/2020 📍 Vienna, Austria

- Specializations:
 - Algebra
 - Number theory
 - Discrete mathematics
- Thesis: “Algebraic Power Series”
- GPA: 1.07
- Scholarship for outstanding performance 2017/18

Vienna University of Economics and Business (WU Vienna)

BSc, Business Administration

📅 09/2015 – 06/2018 📍 Vienna, Austria

- Thesis: “Die Warteschlangentheorie”
- Specializations:
 - Data Science
 - Mathematical Economics
- GPA: 1.54
- Scholarship for outstanding performance 2016/17
- Graduation among the top 5% of the students in the cohort

University of Vienna

BSc, Mathematics

📅 09/2014 – 07/2017 📍 Vienna, Austria

IT-Skills

	Basics	Expert
R	●●●●●	●●●●●
Python	●●●●●	●●●●●
L ^A T _E X	●●●●●	●●●●●
MS Office	●●●●●	●●●●●
Tensorflow & Keras	●●●●●	●●●●●
Maple	●●●●●	●●●●●

Languages

	Basics	Native
German	●●●●●	●●●●●
Russian	●●●●●	●●●●●
English	●●●●●	●●●●●
French	●●●●●	●●●●●

Competences

📊 Data Science

- Machine Learning Artificial Intelligence
- Supervised & Unsupervised Learning
- Artificial Neural Networks

📈 Finance

- Business Valuation DCF
- Black-Scholes CAPM VaR/ES
- Blockchain Technology

x² Mathematics

- Algebra Algebraic Geometry
- Ring Theory Itô Processes
- Stochastic Differential Equations

- Thesis: “The Prime Number Theorem”
 - GPA: 1.21
 - Scholarship for outstanding performance 2014/15, 2015/16 and 2016/17
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Russian Embassy School in Vienna

Unified State Exam with distinction

📅 09/2006 – 06/2014

📍 Vienna, Austria

Bundesrealgymnasium 3 Radetzkystraße

Matura with distinction

📅 09/2006 – 06/2014

📍 Vienna, Austria

Experience

University of Vienna

Project Employee

📅 10/2018 – Ongoing

📍 Vienna, Austria

- FWF-Project P-31338 “Artin Approximation, Arc Spaces, and Resolution of Singularities”

Publications

“Fast Computation of the N -th Term of a q -Holonomic Sequence and Applications”, with Alin Bostan

submitted

📅 12/2020

📍 Journal of Symbolic Computation

“On a Class of Hypergeometric Diagonal”, with Alin Bostan

submitted

📅 09/2020

📍 Proceedings of the American Mathematical Society

“Diagonal Representation of Algebraic Power Series: A Glimpse Behind the Scenes”

submitted

📅 05/2020

📍 Springer Proceedings in Mathematics

Projects

WU Vienna – Facility Management

Concept to optimize the campus elevators

📅 11/2018–01/2019

- Simulation of elevator waiting times at peak hours
 - Derivation of possible optimization methods
 - Partial implementation by the campus management
 - Coding language: R
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SAP – Predictive Analytics / WU Vienna

Data Science Project as part of the Data Science specialization

📅 03/2017 – 07/2017

- Outlier detection for multi-dimensional financial instrument data
- Proxy selection for missing financial data based on quantitative data
- Creation of a suitable neural network for the provided data
- Coding language: Python

Private investor group

Cryptocurrency Trading Analysis

📅 12/2017 – 06/2018

- Evaluation and prediction of cryptocurrency prices using various machine learning methods / Artificial Intelligence (Artificial Neural Networks, Tree-based models, Regression)
- Currency Valuation based on crypto-market specific DCF methods
- Invention of a strategy-backtest platform and trading algorithm

- Coding languages: Python, R

Competitions

Mathematical Competitions

Competitions and Olympiads in Mathematics

- Middle European Mathematical Olympiad (MEMO)
 - “Honourable Mention” – Hungary, 2013
- International Mathematical Olympiad (IMO)
 - “Third Prize” – South Africa, 2013
- Vojtěch Jarník International Mathematical Competition (VJIMC)
 - “Honourable Mention” – Czech Republic, 2015, 2016 & 2019
 - “Third Prize” – Czech Republic, 2017 & 2018
- International Mathematical Competition (IMC)
 - “Honourable Mention” – Bulgaria, 2017
 - “Third Prize” – Bulgaria, 2015, 2016 & 2018