RICHARD ORAVKIN

richard.oravkin.19@ucl.ac.uk, +447541362135 +421904440704

EDUCATION

University College London - BSc Mathematics (3rd year) *October 2019 -*
Grade: Average of 94.39 % (First Class Honours)

1.SG Bajkalská - Secondary School (Bratislava, Slovakia) *September 2010 - May 2019*
Slovak Maturita grades: Slovak Language - 1, English Language - 1, Mathematics - 1, Physics - 1   (1 - best)
Advanced Placement Calculus BC - Score 5 (Calculus AB Subscore - 5)   (5 - best)

ACHIEVEMENTS

Kestelman Prize, UCL Department of Mathematics *2021*
Awarded to the best Year 2 student in Analysis.

Golden Dolphin Prize, 1.SG Bajkalská *May 2019*
Awarded for achieving the best grade in every subject in each year of high school.

Young Physicists' Tournament (YPT) *2017 & 2018*
Member of the team which won 2nd and 3rd place in the national round of the YPT.

WORK & RESEARCH EXPERIENCE

Internship at Colimit
Worked on two projects for the start-up Colimit:

- **Project for Slovak Cycling Federation** *January - May 2021*
  Developed a Python library which extracts and pre-processes Garmin user data.
  Analyzed the data using elementary machine learning methods.

- **Project for Health Insurance Company Dôvera** *May - June 2021*
  Investigated methods to detect fraudulent health insurance claims in a team of 12.
  Analyzed data contained in a large database using SQL.

Summer Project at the Department of Mathematics, UCL *July 2021 - August 2021*
Explored the theory of univalent functions[1] under the supervision of Professor Alex V. Sobolev.

Internship at the Slovak Academy of Sciences *August - October 2020*
Obtained skills in the programming language MATLAB.
Read research papers about topics in Probability theory.
Expanded CharFunTool[2], a MATLAB repository created by Dr.Viktor Witkovský, used to evaluate and invert characteristic functions of random variables.
Created the front-end of two MATLAB applications for computing Renewal Processes.

SKILLS AND INTERESTS

Computer Skills	Python, MATLAB, SQL (beginner)
Machine Learning	cs231n[3] about Convolutional Neural Networks
Languages	Fluent: English, Czech, Slovak Beginner: German, Spanish
Sport	Competitive tennis player until age 14 in Slovakia
	Captain of FC Ružinov Bratislava (age 15 - 18)
Volunteering	Member of NGO Trojsten
	Raising money for people with a mental illness
	Private Tutoring

---

[1]The project can be found here: https://github.com/richardoravkin/Summer-Project
[2]Additional information can be found here: https://github.com/witkovsky/CharFunTool
[3]More information can be found here: https://cs231n.github.io