Jakub Antos

Bc. Student · Mathematical Modelling

Faculty of Mathematics and Physics, Charles University

EXPERIENCE

AUGUST 2019

Univeristy of Warwick Summer School

Intensive 2-week-long program focused on mathematically developing and applying the tools of data science using R.

JUNE 2022 - PRESENT

Ricardo Prague
Tester / Junior Developer

My task includes testing models written in the Modelica language and the in-house developed tools.

SELECTED COURSEWORK

2022

MIT 18.065 | Matrix Methods in Data Analysis, Signal Processing, and Machine Learning

A lecture series from professor Gilbert Strang. The course builds the mathematical foundations of data analysis, signal processing, and machine learning.

2021

MIT 18.S191 | Introduction to Computational Thinking

A course presenting the rising Julia programming language and its application in physical sciences.

2022

NMMO212 | Computer solution of physical problems

A course focused on analyzing and simulating complex physical systems using Matlab or Mathematica.

2021

NMIN264 | Advanced course in Mathematica

A deeper exploration of Mathematica's tools, including numerical calculations, data processing, and geometric visualization.

2021

NOFY023 | Special Theory of Relativity

A course presenting the mathematical ideas behind Eistein's theory and its implications.

EDUCATION

2020 - PRESENT	**Bachelor's degree** Mathematical Modelling *Charles University*
2017 - 2020	**US High School Diploma** *American Academy in Prague*

SKILLS

PROGRAMMING	Mathematica, Julia, Python, C++, LaTeX
TOOLS	linux, git, Vim, Blender
LANGUAGES	English, Czech, German, French

AWARDS & GRANTS

2021-PRESENT

Student grant project

I received a grant for improving the algorithm used by one of my professors for predicting the arrangement of a given set of molecules on a flat surface. The task includes working with and improving on the code written by other people, presentation of results, and thinking from first principles.

2010

3. místo v soutěži Matematický klokan

V roce 2010 jsme zaznamenal třetí místo v okresník kole prestižní matematické soutěže pro první a druhé třídy.

CONTACT

MAIL	antos_j@outlook.com
HOMEPAGE	https://antosjakub.github.io/
GITHUB	https://github.com/antosjakub?tab=repositories