Šimon Bartoň

About me

Undergraduate student at Faculty of Mathematics and Physics | Charles University interested in atmospheric models

Personal

Šimon Bartoň
nationality: Czech
2003

Areas of specialization

Mathematical modelling
• Atmospheric physics
• Gravity waves

Interests

Literature • Music active & passive • sport in nature

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Curriculum Timeline

2024–present

Internal Gravity Waves Research
Department of Atmospheric Physics · Faculty of Mathematics and Physics
Looking into instability of internal gravity waves and resulting turbulent mixing of air being my thesis topic supervised by RNDr. Petr Šácha, PhD.

2022–present

Undergraduate at Mathematical Modelling
Faculty of Mathematics and Physics | Charles University · Prague
Currently a third-year student of the study programme Mathematical modelling, which combines both mathematics and physics, as well as programming, thereby preparing the student for being able to formulate a problem as a mathematical model and to put it through suitable programming language into practice

2020–2021

Secondary School Research Project
Malostranské gymnázium · Prague
Concerned myself with contemporary German literature and mostly with its translation to Czech, the resulting work meeting the requirements of bachelor thesis was awarded first place in the national stage of the SOČ competition (Středoškolská odborná činnost) in the subject of Theory of Art, Culture and Artistic Creation

2014–2022

Malostranské gymnázium
Prague ·
Eight-year grammar school with wide scope of activity

Other experiences

Tutoring	preparing pupils for mathematical part of secondary school entrance exams
Tutoring	assistance for undergraduate students with preparation for university mathematics exams
Leading	being one of the leaders at a children's canoeing summer camp
Translating	volunteer member of Khan Academy translation team recreating english educational texts, videos and exercises in Czech (worked on topics such as maths, physics, atmosphere and climate)

Certificates & Grants

2021	CAE Certificate
2022	School Leaving Certificate (i.a. for German)

Languages

Czech	C2	mother tongue
English	C1	● ● ● ● ● ●
German	C1	● ● ● ● ● ●

Programming

- **python**
- **matlab**
- **LaTeX**
- **mathematica**