Veronika Hendrychová

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EDUCATION

Czech Technical University in Prague, **Faculty of Nuclear Sciences and Physical Engineering (FNSPE CTU)** Master's degree in Mathematical Computer Science	2024 - PRESENT
École Normale Supérieure, Rennes, France Two-semester Erasmus stay, 1st year of Master's degree in Computer Science	2023 - 2024
FNSPE CTU Graduated with honors from bachelor studies in Mathematical Computer Science	2020 - 2023

AWARDS

"Super Bachelor Thesis" Award of FNSPE CTU Annual faculty bachelor thesis award	2023
2nd place in the Rektorys Competition Presentations of CTU students' scientific works	2023
Scholarship of the Czech Literary Foundation Travel scholarship for my visit to Inria, France, to present my bachelor thesis	2023
Merit Scholarships of FNSPE CTU Excellent grades, graduation with honors	2021, 2023
"General Alois Liška" Award Numerous high-school competitions and olympiads	2017

PUBLICATIONS

Dvořáková L., Hendrychová V., **"String attractors of Rote sequences"** Submitted for review to Discrete Mathematics & Theoretical Computer Science	2023

PRESENTATIONS

Inria, Rennes, France Presented "Mathematical modeling of phylogenetic compression" for the GenScale team	2024
DSB, Montpellier, France Presented "Mathematical modeling of phylogenetic compression"	2024
CIRM Week of CoW, Marseille, France Invited talk "String attractors of Rote sequences"	2024
Student conferences of the TIGR Research Group, Czechia Talks on the topic of String Attractors	2024, 2023, 2022
SeqBIM, Lille, France Presented "Mathematical model of phylogenetic compression"	2023
Visit at the Inria/IRISA Institute, Rennes, France Invited talk "String attractors of infinite words"	1 week, 2023
Moderator of the Physics Education session of "IAPS at a distance", online Event organized by the International Association of Physics Students	2020

PROJECTS

Mathematical Model of Phylogenetic Compression   10 months, 2023 - PRESENT

Under Dr. Karel Břinda (Inria, France)

String Attractors of Pseudostandard and Rote Words   10 months, 2022 - 2023

Under Prof. Ľubomíra Dvořáková (CTU, Czechia) and Dr. Karel Břinda (Inria, France)

Constant Gap Sequences   1 month, 2021

Under Prof. Ľubomíra Dvořáková (CTU, Czechia)

CERN HSS Internship Programme, Switzerland   2 weeks, 2017

Internship in CERN for 24 selected high-school students from Czechia

Other projects published at https://github.com/vercah

TEACHING, TUTORING

Teaching Assistant in Linear Algebra (FNSPE CTU)   Fall semester, 2024

Lead exercise sessions of Linear Algebra for university students on a weekly basis

Lecturer at Science summer camps for children (FSci CUNI)   2018 - 2023

Created and lead various physics programs for children aged 10-15

Project supervisor at Science Week (FNSPE CTU)   2 days, 2023

Supervised group of high-school students

Math and English Tutor   2019 - 2020

Individual tutoring of a middle-school student

WORK EXPERIENCE

Core member of FYKOS (FMP, CUNI)   2020 - PRESENT

- Students' group at the Faculty of Mathematics and Physics, Charles University
- Organizing several major annual events and international competitions in physics for high-school students
- In-person events ranging from educational experience camp for 40 best participants to an international competition for ~1,200 participants; online competitions up to ~4,500 participants from 63 countries

IT developer and support of FYKOS   2020 - PRESENT

Development and deployment of static websites and a web app database in Nette, SQL, bash

Operations staff at the Program on AI and Reasoning (PAIR)   3 weeks, 2024

Two-week international camp for 25 selected students and 15 staff members, focused on AI andapplied rationality

Database administrator and organizer of Science Week (FNSPE, CTU)   3 months, 2022

One-week event for 150 high-school students, focused on popularization of physics

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LANGUAGES

- **Czech** (native speaker)
- **English** (C2, CAE Certificate)
- **Spanish** (~B1)
- **French** (~B2, 1-year stay in France)

KEY COURSES TAKEN

Mathematics – Calculus (4 semesters), Linear Algebra (2 semesters), Algebra, Discrete Mathematics (4 semesters), Differential Equations, Numerical Mathematics (2 semesters), Probability and Statistics, Complex Functions, Coding Theory

Computer Science – Programming in C++ (3 semesters), Linear Programming, Introduction to Algorithms, Introduction to UNIX, Computer Graphics (2 semesters), Introduction to Java, Complexity Theory, Coq Basics, Experimental Bioinformatics