Veronika Hendrychová

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github.com/vercah

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EDUCATION

Czech Technical University in Prague, 2024 - PRESENT
Faculty of Nuclear Sciences and Physical Engineering (FNSPE CTU)
Master's degree in Mathematical Computer Science

École Normale Supérieure, Rennes, France 2023 - 2024
Two-semester Erasmus stay, 1st year of Master's degree in Computer Science

FNSPE CTU 2020 - 2023
Graduated with honors from bachelor studies in Mathematical Computer Science

AWARDS

"Super Bachelor Thesis" Award of FNSPE CTU 2023
Annual faculty bachelor thesis award

2nd place in the Rektorys Competition 2023
Presentations of CTU students' scientific works

Scholarship of the Czech Literary Foundation 2023
Travel scholarship for young scientists

Merit Scholarships of FNSPE CTU 2021, 2023
Excellent grades, graduation with honors

"General Alois Liška" Award 2017
Numerous high-school competitions and olympiads

PUBLICATIONS

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

PRESENTATIONS

Inria, Rennes, France 2024
Presented "Mathematical modeling of phylogenetic compression" for the GenScale team

DSB, Montpellier, France 2024
Presented "Mathematical modeling of phylogenetic compression"

CIRM Week of CoW, Marseille, France 2024
Invited talk "String attractors of Rote sequences"

Student conferences of the TIGR Research Group, Czechia 2024, 2023, 2022
Talks on the topic of String Attractors

SeqBIM, Lille, France 2023
Presented "Mathematical model of phylogenetic compression"

Visit at the Inria/IRISA Institute, Rennes, France 1 week, 2023
Invited talk "String attractors of infinite words"

Moderator of the Physics Education session of "IAPS at a distance", online 2020
Event organized by the International Association of Physics Students

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

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

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 tutoring 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-presence events ranging from educational experience camp for 40 best participants to an international competition for ~1200 participants; online competitions up to ~3900 participants from 62 countries

IT developer of FYKOS 2020 - PRESENT

- Development and deployment of static websites and a web app database in the Nette framework, dokuwiki, SQL, bash
- Providing IT support for both organizers and participants of the competitions

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
- Maintaining the database, communication with participants, maintenance of the website on the server

LANGUAGES

- **Czech** (native speaker)
- **English** (C2, CAE Certificate)
- **Spanish** (~B2)
- **French** (~B1, 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