Veronika Hendrychová

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github.com/vercah

EDUCATION

Czech Technical University in Prague, 2024 - 2026
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, equivalent to 1st year of Master's degree in Computer Science

FNSPE CTU 2020 - 2023
Bachelor's degree in Mathematical Computer Science program, graduated with honors

AWARDS

Stanislav Hanzl Award 2024
Czech Technical University award for gifted students

FNSPE CTU Award for gifted students 2024
Financial award for publishing university work in a journal

3rd and 2nd place in the Rektorys Competition 2024, 2023
Presentations of CTU students' scientific works

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

Scholarship of the Czech Literary Foundation 2023
Travel scholarship for my visit to Inria, France, to present my bachelor thesis

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

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

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 on "String attractors of Rote sequences"
Student conferences of the TIGR Research Group, Czechia 2025, 2024, 2023, 2022
Talks on the topic of String Attractors and Phylogenetic Compression
SeqBIM, Lille, France 2023
Presented "Mathematical model of phylogenetic compression"

PUBLICATIONS

Dvořáková L., Hendrychová V., **"String attractors of Rote sequences"** 2023
Published in Discrete Mathematics & Theoretical Computer Science

PROJECTS

Mathematical Model of Phylogenetic Compression   2023 - 2026
Diploma thesis under Dr. Karel Břinda (Inria, France)

String Attractors of Pseudostandard and Rote Words   10 months, 2022 - 2023
Bachelor thesis under Prof. Ľubomíra Dvořáková (CTU, Czechia) and Dr. Karel Břinda (Inria, France)

Constant Gap Sequences   1 month, 2021
Project of interest 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)   3 semesters, 2024 - 2025
Leading exercise sessions of Linear Algebra

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

IT developer and support of FYKOS   2020 - 2026
Development and deployment of static websites and a web app database in Nette, SQL, bash

Core member of FYKOS (FMP, CUNI)   2020 - 2025
- 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 in Prague for ~1,400 participants; online competitions up to ~5,000 participants from 74 countries

Operations staff at the Program on AI and Reasoning (PAIR)   2025, 2024
Two-week international camp for ~25 selected students, focused on AI and applied 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

LANGUAGES

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