

# Veronika Hendrychová

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github.com/vercah

Updated in April, 2025

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## EDUCATION

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

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## AWARDS

<b>Stanislav Hanzl Award</b> Annual Czech Technical University award for gifted students	2024
<b>FNSPE CTU Award for gifted students</b> Financial award for publishing university work in a journal	2024
<b>3<sup>rd</sup> and 2<sup>nd</sup> place in the Rektorys Competition</b> Presentations of CTU students' scientific works	2024, 2023
<b>"Super Bachelor Thesis" Award of FNSPE CTU</b> Annual faculty bachelor thesis award	2023
<b>Scholarship of the Czech Literary Foundation</b> Travel scholarship for my visit to Inria, France, to present my bachelor thesis	2023
<b>Merit Scholarships of FNSPE CTU</b> Excellent grades, graduation with honors	2021, 2023
<b>General Alois Liška Award</b> Numerous high-school competitions and olympiads	2017

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## PUBLICATIONS

Dvořáková L., Hendrychová V., " <a href="#">String attractors of Rote sequences</a> " Accepted to Discrete Mathematics & Theoretical Computer Science	2023
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## PRESENTATIONS

<b>Inria, Rennes, France</b> Presented "Mathematical modeling of phylogenetic compression" for the GenScale team	2024
<b>DSB, Montpellier, France</b> Presented "Mathematical modeling of phylogenetic compression"	2024
<b>CIRM Week of CoW, Marseille, France</b> Invited talk on "String attractors of Rote sequences"	2024
<b>Student conferences of the TIGR Research Group, Czechia</b> Talks on the topic of String Attractors	2024, 2023, 2022
<b>SeqBIM, Lille, France</b> Presented "Mathematical model of phylogenetic compression"	2023

## 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>

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## TEACHING, TUTORING

### Teaching Assistant in Linear Algebra (FNSPE CTU)

2 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

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## 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 in Prague 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 world-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

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## LANGUAGES

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