

# Veronika Hendrychová

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github.com/vercah

Updated in September 2024

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## EDUCATION

<b>Czech Technical University in Prague, 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>"Super Bachelor Thesis" Award of FNSPE CTU</b> Annual faculty bachelor thesis award	2023
<b>2<sup>nd</sup> place in the Rektorys Competition</b> Presentations of CTU students' scientific works	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., <b>"String attractors of Rote sequences"</b> Submitted for review 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
<b>Visit at the Inria/IRISA Institute, Rennes, France</b> Invited talk on "String attractors of infinite words"	1 week, 2023
<b>Moderator of the Physics Education session of "IAPS at a distance", online</b> Event organized by the International Association of Physics Students	2020

## PROJECTS

<b>Mathematical Model of Phylogenetic Compression</b> Under Dr. Karel Břinda (Inria, France)	10 months, 2023 - PRESENT
<b>String Attractors of Pseudostandard and Rote Words</b> Under Prof. Lubomíra Dvořáková (CTU, Czechia) and Dr. Karel Břinda (Inria, France)	10 months, 2022 - 2023
<b>Constant Gap Sequences</b> Under Prof. Lubomíra Dvořáková (CTU, Czechia)	1 month, 2021
<b>CERN HSS Internship Programme, Switzerland</b> Internship in CERN for 24 selected high-school students from Czechia	2 weeks, 2017
<b>Other projects published at <a href="https://github.com/vercah">https://github.com/vercah</a></b>	

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## TEACHING, TUTORING

<b>Teaching Assistant in Linear Algebra (FNSPE CTU)</b> Leading exercise sessions of Linear Algebra for university students on a weekly basis	Fall semester 2024 - PRESENT
<b>Lecturer at Science summer camps for children (FSci CUNI)</b> Created and lead various physics programs for children aged 10-15	2018 - 2023
<b>Project supervisor at Science Week (FNSPE CTU)</b> Supervised group of high-school students	2 days, 2023
<b>Math and English Tutor</b> Individual tutoring of a middle-school student	2019 - 2020

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## WORK EXPERIENCE

<b>Core member of FYKOS (FMP, CUNI)</b> <ul style="list-style-type: none"><li>Students' group at the Faculty of Mathematics and Physics, Charles University</li><li>Organizing several major annual events and international competitions in physics for high-school students</li><li>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</li></ul>	2020 - PRESENT
<b>IT developer and support of FYKOS</b> Development and deployment of static websites and a web app database in Nette, SQL, bash	2020 - PRESENT
<b>Operations staff at the Program on AI and Reasoning (PAIR)</b> Two-week international camp for 25 selected students and 15 staff members, focused on AI and applied rationality	3 weeks, 2024
<b>Database administrator and organizer of Science Week (FNSPE, CTU)</b> One-week event for 150 high-school students, focused on popularization of physics	3 months, 2022

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## LANGUAGES

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