

Veronika Hendrychová

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EDUCATION

École Normale Supérieure, Rennes, France	2023 - PRESENT
Two-semester Erasmus stay, 1st year of Master's degree in Computer Science	
Czech Technical University in Prague, Faculty of Nuclear Sciences and Physical Engineering (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

DSB, Montpellier, France	2024
Presented "Mathematical modeling of phylogenetic compression"	
CIRM Week of CoW, Marseille, France	2024
Invited talk "String attractors of Rote sequences"	
SeqBIM Conference, 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"	
Conferences of the TIGR Research Group, Czechia	2023, 2022
Talks on the topic of String Attractors	
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 Under Dr. Karel Břinda (Inria, France)	10 months, 2023 - PRESENT
String Attractors of Pseudostandard and Rote Words Under Prof. Lubomíra Dvořáková (CTU, Czechia) and Dr. Karel Břinda (Inria, France)	10 months, 2022 - 2023
Constant Gap Sequences Under Prof. Lubomíra Dvořáková (CTU, Czechia)	1 month, 2021
CERN HSS Internship Programme, Switzerland Internship in CERN for 24 selected high-school students from Czechia	2 weeks, 2017
Other projects published at https://github.com/vercah	

TEACHING, TUTORING

Lecturer at Science summer camps for children (FSci CUNI) Various physics programs for children aged 10-15	2018 - 2023
Project supervisor at Science Week (FNSPE CTU) Supervised group of high-school students	2 days, 2023
Math and English tutoring Individual tutoring of a middle-school student	2019 - 2020

WORK EXPERIENCE

Member of the leadership of FYKOS (FMP, CUNI) <ul style="list-style-type: none">Students' group at the Faculty of Mathematics and Physics, Charles UniversityOrganizing several major annual events and competitions in physics for high-school studentsAnnually coordinating project management of these events<ul style="list-style-type: none">Fyziklani - in-presence team physics competition in Prague, last year ~ 1200 participants from 21 countriesFYKOS Correspondence Competition - correspondence contest, ~ 200 participants, 6 rounds a yearFYKOS Camps - two week-long camps a year for the best participants of the Correspondence CompetitionPhysics Brawl Online - online team physics competition, last year ~ 3900 participants from 62 countriesDay with experimental physics - free excursions to scientific laboratories for ~100 high school students	2020 - PRESENT
IT developer of FYKOS <ul style="list-style-type: none">Developing and maintaining several static websites using Nette framework and dokuwiki, deployment on serverMaintaining SQL database of participants and its web applicationProviding IT support for both organizers and participants of the competitions	2020 - PRESENT
Database administrator and organizer of Science Week (FNSPE, CTU) <ul style="list-style-type: none">One-week event for 150 high-school students, focused on popularization of physicsMaintaining the database, communication with participants, maintenance of the website on the server	3 months, 2022

LANGUAGES

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