

LUCIE WINTROVÁ

Curriculum Vitae

Prague, Czech Republic — wintrova@karlin.mff.cuni.cz

EDUCATION

Doctoral study programme - Mathematical and Computer Modeling

September 2024 - Present

Charles University, Faculty of Mathematics and Physics; Prague, Czech Republic

Thesis: Analysis of rate-type viscoelastic models used in modelling of human tissues, Supervisor: Miroslav Bulíček

Master's degree - Mathematical Analysis

September 2022 - September 2024

Charles University, Faculty of Mathematics and Physics; Prague, Czech Republic

Thesis: Stability of stationary flows of non-Newtonian heat conducting fluid in 2D, Supervisor: Petr Kaplický

Bachelor's degree - General Mathematics

September 2019 - June 2022

Charles University, Faculty of Mathematics and Physics; Prague, Czech Republic

Thesis: Mathematical paradoxes (in czech), Supervisor: Luboš Pick

GRANTS AND PROJECTS

Charles University Research Centre program No. UNCE/24/SCI/005

February 2024 - Now

Member of the team.

GAČR project 20-11027X

May 2023 - Now

Member of the team.

Letters from Whitechapel project

June 2022 - November 2022

Student mini-grant, 4EU+ alliance; Warsaw, Poland

Led an international group, resolved problems in a field previously unknown, gained experience in drawing a grant.

Modular Arithmetic and cryptography project

February 2021 - July 2021

Bachelor in Mathematics Student Tasks, 4EU+ alliance; Milan, Italy

Wrote a coherent scientific text, advanced problem-solving skills, and worked in an international collective.

RESPONSIBILITIES

Treasurer

June 2024 - Now

Charles University Chapter of SIAM; Prague, Czech Republic

Faculty Coordinator of Volunteers

August 2023 - January 2024

Charles University, Volunteering Centre; Prague, Czech Republic

Mediated cooperation between students and non-profit organizations, and communicated with the public during promotion events.

Student Guide

September 2022 - May 2023

Charles University, Faculty of Mathematics and Physics; Prague, Czech Republic

Supervised a group of twenty first-year students to ease their integration into university education.

AWARDS

Professor Jindřich Nečas Award

June 2024

Nečas Center for Mathematical Modeling; Prague, Czech Republic

For excellent academic results and extraordinary initiative in the area of mathematical analysis of partial differential equations.

TEACHING

Mathematics for Physicists I

September 2024 - February 2025

Charles University, Faculty of Mathematics and Physics; Prague, Czech Republic

Mathematics 1

September 2022 - February 2023

Charles University, Faculty of Social Sciences; Prague, Czech Republic

Won the Golden course survey for winter semester 2022/2023.

CONFERENCE ACTIVITY

Summer School in Computational Physiology

June - August 2025

Simula; Oslo, Norway & UiO; Oslo, Norway & UCSD; San Diego, USA

Worked on and presented a project on spatial modeling of store-operated calcium entry in dendritic spines.

Workshop on Mixtures: Modeling, analysis and computing

February 2025

Charles University; Prague, Czech Republic

Winter School: Boundary and Singularity in Fluid Mechanics

January 2025

Simons Center, Stony Brook University; New York, USA

Modelling, PDE analysis and computational mathematics in materials science

September 2024

Charles University; Prague, Czech Republic

Presented the results of my master's thesis in the form of a poster.

Summer School on Mathematics of Geophysical Flows

September 2024

Max Planck Institute; Leipzig, Germany

Summer School: (In)-Stability Phenomena in Fluid Mechanics

May 2024

CY Cergy Paris Université; Paris, France

School in Mathematical Aspects of Fluid Flows

May 2024

European Mathematical Society; Kácov, Czech Republic

Gave a short talk about the results of my master's thesis.

GeoCa 23 workshop

December 2023

Charles University; Lysečiny, Czech Republic

Summer School in the New Trends in Mathematical Fluid Dynamics

June 2023

Institut Fourier, Université Grenoble-Alpes; Grenoble, France

Presented an introduction to my master's thesis.

FOREIGN LANGUAGES

English

Advanced. I hold an FCE Certificate - C1 Proficiency.

French

Advanced. I hold a DALF Certificate - Niveau C1. I studied at Lycée Edouard Belin in Vesoul for a year.