Radu Vintan

radu.vintan@epfl.ch

Education

2022-present **Ph.D. in Computer Science**, *EPFL*
Advisor: Ola Svensson
Anticipated Graduation Date: 2027

2020–2022 **Master's in Informatics**, *Technical University of Munich (TUM), GPA: 1.0/1.0*

2017–2020 **Bachelor's in Informatics**, *Technical University of Munich (TUM), GPA: 1.0/1.0*

Research Interests

I am currently interested in studying and researching: approximation and online algorithms, linear programming and its use in designing efficient algorithms.

Other interests include, in non-increasing order of proficiency: machine learning, complexity theory, convex optimization, functional programming languages.

Publications

Online Edge-Coloring is (Nearly) as Easy as Offline
Joakim Blikstad, Ola Svensson, Radu Vintan, David Wajc.
STOC 2024.

Simple and Asymptotically Optimal Online Bipartite Edge Coloring
Joakim Blikstad, Ola Svensson, Radu Vintan, David Wajc.
SOSA 2024.

Fast Algorithms for Loop-Free Network Updates using Linear Programming and Local Search
Radu Vintan, Harald Räcke, Stefan Schmid.
INFOCOM 2024.

Projects and practical work

2023 **Ph.D. Semester Project**
Supervisor: Prof. Ola Svensson
Online Edge Coloring and Random Matchings

2022 **Ph.D. Semester Project**
Supervisor: Prof. Friedrich Eisenbrand
Efficient Approximation Schemes for Diversification Problems

2021-2022 **Guided Research Project (GR)**
Supervisor: Prof. Harald Räcke
Developing Heuristic and Competitive Algorithms for the Dynamic Minimum Linear Arrangement Problem.

2019-2020 **Practical Course: Algorithms for Programming Contests**
Solving competitive programming problems.

Master's Thesis

Title Approximation Algorithms for Loop-Free Updates in Software-Defined Networks

Supervisors Prof. Harald Räcke

Bachelor's Thesis

Title Analysis of Population Protocols with Specific Communication Structures

Supervisors Prof. Javier Esparza, Dr. Stefan Jaax

Awards and Scholarships

2022-2023 **EPFL Ph.D. Fellowship**
The fellowship allows Ph.D. students in Computer Science at EPFL to explore different research labs through semester projects during their first year.

2022 **SAP Student Award**
The award is offered by SAP for the best Master's Thesis in Informatics at TUM.

2018 **best.in.tum**
Became a member of best.in.tum: a program which promotes the best two percent of students studying Informatics at TUM.

2017-2022 **DAAD Scholarship**
Received a scholarship from the German Academic Exchange Service (DAAD) for my Bachelor's in Informatics. The scholarship was later extended for my Master's.

2017 **6th place, Romanian Mathematics Olympiad (RMO)**
Received a silver medal (12th Grade). Participated at the first selection round (out of five) for the national team for the IMO (International Mathematical Olympiad).

2016 **3rd place, Romanian Mathematics Olympiad (RMO)**
Received a gold medal (11th Grade). Participated at the first selection round (out of five) for the national team for the IMO.

Languages

German	C1 (DSD II Zertifikat)
English	C2 (Cambridge Certificate)
Romanian	native

Computer skills

Experience from university projects or competitive programming with following languages:

- Java, Python (also NumPy, SciPy, Pytorch), C++

Basic acquaintance with:

- OCaml, Haskell, Javascript