

Szilágyi Dániel (Daniel Siladi)

Computer Science Student
École normale supérieure de Lyon

Contact

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Education

- **École normale supérieure de Lyon** Lyon, France
Master studies, Theoretical Computer Science 2017 - present
 - Finished the first year at the top of the class
 - Awarded the Ampère excellence scholarship for both years
- **University of Primorska** Koper, Slovenia
Mathematics BSc 2014 - 2017
 - Graduated with GPA: 10.00
 - Bachelor thesis title: “Computational methods for polypeptide origami design”
- **Gimnazija Jovan Jovanović Zmaj** Novi Sad, Serbia
High school 2010 - 2014
 - Class specialized for mathematics, physics and computer science
 - GPA: 5.00/5.00
 - Final year project: “Some applications of group theory”
- **Osnovna škola pri gimnaziji Jovan Jovanović Zmaj** Novi Sad, Serbia
Elementary School 2008 - 2010
 - Spent last two years of elementary education in an experimental class specialized for mathematics, physics and computer science
 - GPA: 5.00/5.00
- **Osnovna škola Jovan Popović** Novi Sad, Serbia
Elementary School 2002 - 2008
 - Finished first six grades before moving to the experimental class
 - GPA: 5.00/5.00

Experience

- **IRIF, Université Paris Diderot** Paris, France
Research Intern 2019 - present
 - Second semester internship
 - Worked on quantum machine learning, with prof. Iordanis Kerenidis
- **LIP, École normale supérieure de Lyon** Lyon, France
Research Intern 2018
 - Three month summer internship
 - Worked on algorithmic aspects of quantum information theory, with prof. Omar Fawzi
- **Microsoft Development Center Serbia** Belgrade, Serbia
Data Science Intern 2016
 - Three month summer internship
 - Worked on modeling and forecasting SQL Server performance

- **ELTE Summer School of Mathematics** Budapest, Hungary
Participant, Discrete Algorithms and Applications 2016
- **Petnica Summer Institute of Machine Learning** Petnica, Serbia
Participant 2015
 - Machine learning summer school organized by Microsoft Development Center Serbia
 - Worked on developing a model for local business classification, using logistic regression on real-world data from the Bing search engine
- **Summer School of Science** Požega, Croatia
Project mentor 2015
 - Mentored a team of 3 high school students on a project where they developed a system for near real time indoor positioning using a few Bluetooth low energy beacons, and a smartphone.
- **Petnica Science Center** Petnica, Serbia
Teaching Assistant at the Physics Seminar 2015 - present
- **PKP project *Absorption of foreign substances in the sea*** Koper, Slovenia
Student project organized by the University of Primorska 2015
 - Worked as a part of a team, designing and manufacturing the housing and electronics for an underwater data-collection module
- **Petnica Science Center** Petnica, Serbia
High School science projects 2011 - 2014
 - Daniel Siladi, Ognjen Stanisavljević: “*Simulation of pedestrian traffic in evacuation situations*”. Mentored by Miroslav Bogdanović, and presented at the annual Petnica Autumn Conference in 2014.
 - Daniel Siladi, Kristina Siladi: “*Embedding graphs in books*”. Mentored by Stefan Mihajlović, and presented at the annual Petnica Autumn Conference in 2013.
 - Daniel Siladi: “*Simulating fluids in two dimensions*”. Presented at the annual Petnica Autumn Conference in 2012.
 - Daniel Siladi: “*Genetic Algorithms and the Travelling-Salesman Problem*”. Presented at the annual Petnica Autumn Conference in 2011.
 - All 4 papers have been or will be published in the respective conference proceedings (*Petničke Sveske*)
- **Višnjan Summer School of Science** Višnjan, Croatia
Science/engineering project 2014
 - Worked as a part of a team and built a fully functional remotely operated underwater vehicle
 - Programmed the data collection and motor controller modules
- **Modern Mathematics International Summer School for students** Bremen, Germany
Mathematics summer school for high school and university students 2013

Competitions and awards

- **NASA SpaceApps challenge** Koper, Slovenia
Global 48h programming hackathon, organized by NASA 2016
 - Second place, qualified into the Central European round
 - Designed and built an end-to-end machine learning-based solution for predicting flight delays based on meteorological data
 - Joint work with Edin Husić, Marko Palanetić, Marko Prača, Marko Rajković and Vladan Jovičić
- **Russian Open Internet Olympiad** Koper, Slovenia
Bronze medal in computer science 2016

- **ACM Central Europe Regional Contest** Zagreb, Croatia
Team programming competition 2015-2016
- **University Programming Marathon** Slovenia
National qualifications for the ACM regionals 2015 - present
 - University champion for 2015 and 2016
- **Serbian national competitions** Serbia
Informatics, Mathematics, Physics 2010 - 2014
 - Regularly competed in mathematics, physics and informatics competitions, up to the national level
 - **Informatics (Computer Science):** Serbian Olympiad in Informatics (2014 – second prize, 2012, 2011 – third prize), National Competition (2014, 2011 – second prize, 2012 – honorable mention)
 - **Mathematics:** National Competition 2012 – honorable mention
 - **Physics:** National Competition 2012 – honorable mention
- **Diplomas at the end of High School** Novi Sad, Serbia
Awarded at the graduation ceremony 2014
 - Vuk Karadžić award for 5.00/5.00 GPA
 - Special Diplomas for successfully participating mathematics, physics and computer science competitions during high school
 - Jovan Jovanović Zmaj plaque, awarded to the best student in the generation
 - Dušan Kešelj plaque, awarded to the most distinguished student in the area of informatics in the generation
- **Energija Znanja scholarship** Serbia
One year monthly scholarship awarded by NIS 2013 - 2014
- **KöMaL's informatics problem solving contest** Budapest, Hungary
Correspondence contest organized by KöMaL (Középiskolai Matematikai és Fizikai Lapok) 2011 - 2013
 - Placed on the 5th place at the end of both 2012 and 2013
 - Invited twice to the annual conference organized at Eötvös Loránd Tudományegyetem (ELTE) for the best competitors in mathematics, informatics and physics
- **Dositeja Award** Serbia
Awarded by the Ministry of Education for exceptional results at competitions 2011, 2012

Publications and conferences

- **Construction of an orthogonal CC-set** Koper, Slovenia
Middle-European Conference on Applied Theoretical Computer Science (MATCOS) 2016
 - Joint work with Andrej Brodnik, Marko Palangetić, Vladan Jovičić
- **Two Tales from the Applied Combinatorial Optimization** Budapest, Hungary
29th Conference of the European Chapter on Combinatorial Optimization 2016
 - Presented as an invited talk by Andrej Brodnik
 - Joint work with Ajasja Ljubetič, Andrej Brodnik, Marko Palangetić, Roman Jerala, Vladan Jovičić

Skills

- **Mathematics**, in particular discrete mathematics and **graph theory**, **numerical methods**
- Working knowledge of various **programming languages**: C/C++, Python, C#, Java, Pascal, SQL, Prolog, Assembler (x86 in particular), MATLAB, Mathematica

- Strong knowledge of **data structures and algorithms**, as well as some background in **theoretical computer science**
- **Other technologies:** L^AT_EX, Unix administration, Git, Microsoft Office
- **Piano** – played it during elementary and higher education, obtained basic music theory knowledge
- **Karate** – blue belt (5th kyu)

Languages

- **Serbian, Hungarian:** Native
- **English:** Fluent (Cambridge CPE diploma, CEFR level C2)
- **French:** Fluent
- **Slovenian:** Working knowledge
- **German, Russian** Basic