

Andrei-Costin CONSTANTINESCU

PERSONAL DATA

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EDUCATION

- OCT 2017 - JUN 2020 BA in COMPUTER SCIENCE,
University of Oxford, Oxford, United Kingdom
- Advanced lectures on Functional Programming, Linear Algebra, Imperative Programming, Assembly Language and Probability
 - Completed first year with a distinction.
- SEPT 2013 - JUN 2017 MATHEMATICS and COMPUTER SCIENCE,
International Computer High School, Bucharest, Romania
- Final Average: 10.0 / 10.0
- JUL 2015 ARTIFICIAL INTELLIGENCE,
Stanford Pre-Collegiate Summer Institutes, Palo Alto, USA,
3 Weeks Summer Program at Stanford University
- Coursework in Computer Science, Bioinformatics and Computer Graphics with a final team presentation on Gene Assembly

WORK EXPERIENCE

- 2015 - 2018 COMPETITIVE PROGRAMMING TEACHER,
International Computer High School, Bucharest, Romania
- Taught performance-oriented classes dedicated to peers aiming to qualify for international coding competitions. Topics included advanced algorithms, data structures, number theory, combinatorics, computational geometry etc.
- 2015 - 2018 COMPETITIVE PROGRAMMING PERSONAL COACH
- My gifted students received medals at national and international competitions (e.g. Silver, Balkan Olympiad in Informatics 2017).
- JUL 2018 SCIENTIFIC COMMITTEE MEMBER,
"Balkan Olympiad in Informatics 2018" International Contest
- Problem setter and contest tester
- OCT 2017 SCIENTIFIC COMMITTEE MEMBER,
"Romanian Master of Informatics 2017" International Contest
- Problem setter and contest tester
- 2015 - 2017 ORGANIZER AND SCIENTIFIC COMMITTEE MEMBER,
"Junior Challenge 2015 - 2017" International Contest
- Team leader
 - Problem setter and contest tester

PROGRAMMING SKILLS

Expert: Algorithms, Data Structures
Proficient: C / C++
Intermediate: SCALA, JAVA, HASKELL
Beginner: PYTHON, C#

PROJECTS

- OCT - NOV 2016 **“Save Champion”** - Written in C++
• Crawler for an online competitive programming judge archive. Given login credentials, it searches through a user's submissions and saves all accepted ones into a designated directory. Makes use of the wget linux command and HTML parsing.
- JAN - FEB 2016 **Genetic Algorithm on Images** - Written in C#
• AI that builds a target image by selecting entries from an image base and assembling them into a collage. The approach is based on a genetic algorithm and makes use of my own image processing framework.
- OCT - NOV 2015 **Interactive Voronoi Diagram** - Written in Unity3D (Mono C#)
• Cross-platform Voronoi Diagram app supporting real-time user interaction. Based on the Principle of Duality and implemented using a Convex Hull algorithm.

HONORS AND AWARDS

- | | | |
|------|--|--|
| 2018 | 23 rd place
31 st place
Gold Medal | Google Hash Code Finals 2018, Dublin, Ireland
ACM ICPC World Finals 2018, Beijing, China
ACM ICPC NWERC 2018, Bath, United Kingdom |
| 2017 | Bronze Medal
Silver Medal
Gold Medal | International Olympiad in Informatics 2017, Tehran, Iran
Central European Olympiad in Informatics 2017, Ljubljana, Slovenia
National Olympiad in Informatics 2017, Brasov, Romania |
| 2016 | Gold Medal
Silver Medal
Silver Medal
Gold Medal
“Mihai Patrascu”
1 st place
1 st place
1 st place
1 st place | International Tournament in Informatics “John Atanasoff”, Shumen, Bulgaria
Romanian Master of Informatics 2016, Bucharest, Romania
International Olympiad in Informatics 2016, Kazan, Russian Federation
Balkan Olympiad in Informatics 2016, Nicosia, Cyprus
Award received for being the most prolific competitor of the year
National Training and IOI Selection Camp 2, Magurele, Romania
National Training and IOI Selection Camp 1, Focsani, Romania
National Olympiad in Informatics 2016, Craiova, Romania
National Contest “Urmasii lui Moisil” 2016, Iasi, Romania |
| 2015 | Bronze Medal
Silver Medal
Mention
1 st place
10 th place
11 th place
Gold Medal
1 st place | International Tournament in Informatics “John Atanasoff”, Shumen, Bulgaria
Romanian Master of Informatics 2015, Bucharest, Romania
“Algoritmiada” 2015, Cluj-Napoca, Romania
National Team Contest “Adolescent Grigore Moisil” 2015, Bucharest, Romania
National Training and IOI Selection Camp 2, Drobeta Turnu-Severin, Romania
National Training and IOI Selection Camp 1, Rimnicu Valcea, Romania
National Olympiad in Informatics 2015, Tirgoviste, Romania
National Contest “Urmasii lui Moisil” 2015, Iasi, Romania |
| 2014 | Silver Medal | National Olympiad in Informatics 2014, Pitesti, Romania |
| 2013 | Gold Medal | International Tournament in Informatics “John Atanasoff”, Shumen, Bulgaria |

CERTIFICATES

- JUL 2017 Romanian Baccalaureate Diploma - 9.87 Average (Out of 10)
MAR 2017 IELTS Academic Test - Band 7.5 (Out of 9), level C1
NOV 2016 SAT Subject Test Physics - 800 (Out of 800)
NOV 2015 SAT Subject Test Mathematics Level 2 - 800 (Out of 800)

LANGUAGES

- Native: Romanian
Fluent: English
Basic: French, Turkish