

# VICTOR KOLEV

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Sofia, Bulgaria



## EDUCATION

### High School Diploma

Sofia High School of Mathematics

September 2017 – June 2021

Sofia, Bulgaria

GPA: 6.00/6

## EXPERIENCE

### Research Mentor

Summer Research School, sister program of Research Science Institute

August 2020

Kranevo, Bulgaria

- Mentored 3 students who worked on two research projects: (1) overfitting and regularization in neural networks; (2) reinforcement learning with ATARI RAM state
- My mentee was distinguished with Bronze Medal at the Annual Conference of the High School Student Institute of the Bulgarian Academy of Sciences

Research

ML

Neural Networks

RL

Stat Learning Theory

### Research Scholar

Research Science Institute

June 2020 – August 2020

Massachusetts Institute of Technology

- Worked on a machine learning project with Dr. Svetlin Penkov, Sciro Research and Dimitar Vassilev, Microsoft Corp.
- Tackled abstract reasoning with neural networks, combining meta-learning and methods from Statistical Learning Theory to achieve state-of-the-art performance on the Abstraction and Reasoning Corpus, a benchmark for machine intelligence

Neural Networks

Abstract Reasoning

Machine Intelligence

### Research Scholar

Summer Research School, sister program of Research Science Institute

July 2019 – August 2019

American University in Blagoevgrad

- Worked on a research project about financial asset management, stock pricing, mathematical modelling, data science

Financial Mathematics

Asset Pricing

Data Science

QFin

### Head Organizer

Youth Forum for a Post-Pandemic World

September 2020

Sofia, Bulgaria

- Conceptualized, planned, and organized a 2-day political forum, providing a platform for the Bulgarian youth to voice their opinion about societal change towards a pandemic-resistant world
- Organized lectures from leading experts in Education, Economics, Global Politics, Medicine

Event Planning

Political Forum

Youth Engagement

## TEST SCORES

C2 Proficiency in English

Grade A (225/230)

SAT

1510/1600

## ACHIEVEMENTS



### Accepted Paper in KR2ML @ NeurIPS

Published a research paper, titled **Neural Abstract Reasoner**, with co-authors Dr. Bogdan Georgiev and Dr. Svetlin Penkov at the Knowledge Representation Meets Machine Learning Workshop at NeurIPS 2020, the largest conference in AI.

Machine Learning

Published Research



### Top 5 best paper award, RSI

My paper was among the top 5 at the 2020 Research Science Institute, and I was selected for the encore presentations, which are the **top 10 best presentations** that represent RSI in front of a wider academic audience.

Research

Science Communication



### Public Speaker

I gave a talk about the life lessons we can learn from Machine Learning at FutureMakers 2020, a TED-style career development event. Over 800 people attended the event.

Communication

Public Speaking



### ISEF 2020 Alumnus

I qualified for the International Science and Engineering Fair, the largest science fair for students in the world.

Competition

Research



### Competitor in Mathematics

I have been competing in mathematics for 10 years, earning many national awards, for example my First Prize at the Spring Mathematics Contest 2018.

Mathematics

Competition

## SKILLS

### Research

- AI, Data Science, Mathematics

### Machine Learning

- Supervised Learning, Computer Vision, Reinforcement Learning, PyTorch

### Programming

- Python, R, C++, C#

### German Language

- proficient in speaking, reading, and writing