VICTOR KOLEV

victor.kolev@yahoo.com | +1 650 334 8461 | victorkolev.github.io
linkedin.com/in/victor-kolev | github.com/victorkolev | Stanford, California

EDUCATION

Bachelor of Science – Math & CS Double Major
Stanford University
September 2021 – June 2025 | Stanford, California

High School Diploma
Sofia High School of Mathematics | GPA: 6.00/6
September 2017 – June 2021 | Sofia, Bulgaria

EXPERIENCE

Machine Learning Intern
Efemarai, Inc.
June 2021 – September 2021 | Sofia, Bulgaria

- Worked with on Deep Generative Models applied to large-scale structured and unstructured data to derive meaningful and interpretable low-dimensional representations.

R&D | ML | Representation Learning | Generative Models

Research Mentor
Summer Research School, sister program of Research Science Institute
August 2020, August 2021 | Bulgaria

- Mentored 3 students, two years in a row and helped them develop research works in AI.
- Projects are about (i) long-term prediction of bond yield prices with Deep Generative Models and a latent temporal transition model; (ii) regulating complexity and approximating polynomials with neural networks; (iii) discretisizing latent representations with VQ-VAE; (iv) RL from ATARI RAM state.

Research | ML | Neural Networks | RL | Stat Learning Theory

Research Scholar
Research Science Institute
June 2020 – August 2020 | Massachusets 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 portfolio management, stock pricing, mathematical modelling, data science; proving the theoretical and emprirical significance of a novel factor, which is a source of asset return

Financial Mathematics | Asset Pricing | Data Science | QFin

ACHIEVEMENTS

Accepted Paper in KR2ML @ NeurIPS
First author of a research paper, **Neural Abstract Reasoner**, with co-authors Dr. Bogdan Georgiev and Dr. Svetlin Penkov, published at a Workshop at NeurIPS 2020.

Machine Learning | Published Research

First Prize, EUCYS 2021.
I won the first 7000€ prize at the largest European contest for young scientists.

Research | Competition

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

ISEF 2020, 2021 Prize Winner
I qualified for the International Science and Engineering Fair, the largest science fair for students in the world. In 2021 I won 3 awards, incl. Grand Award and AAAI award

Competition | Research

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

SKILLS

Research
- AI, Data Science, Mathematics

Machine Learning
- Supervised Learning, Computer Vision, Reinforcement Learning, PyTorch

Programming
- Python, R, C++, C#, C, Linux, LaTeX

German Language
- basic skills in speaking, reading, and writing