

VICTOR KOLEV

Seeking a 3 month internship starting from June 2022

@ victor.kolev@yahoo.com

+1 650 334 8461

victorkolev.github.io

in 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) discretizing 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

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 portfolio management, stock pricing, mathematical modelling, data science; proving the theoretical and empirical 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