Kristian Georgiev

3 Ames Street, Cambridge, MA
+1 617-642-3280
krisgrg@mit.edu
https://kristian-georgiev.github.io

EDUCATION

Massachusetts Institute of Technology (MIT) **Cambridge, MA**
Candidate for B.S. in Mathematics and Computer Science **JUN 2021**

- **Relevant courses: Abstract Algebra, Programming in Python, Algorithms, Machine Learning, Probability and Inference, Stochastic Processes, Discrete Applied Mathematics**

Model High School of Mathematics **Plovdiv, Bulgaria**
High School Diploma (Math Intensive Curriculum) **MAY 2016**

WORK & RESEARCH EXPERIENCE

Wilson Lab, Picower Institute of Learning and Memory, MIT **Cambridge, MA**
Undergraduate Researcher (ongoing) **FEB 2018 - MAY 2018**

- Design and implement an algorithm for high-frequency wireless 3D tracking
- Research implementations of VR tracking engines and adapt them for the purposes of the lab
- Collaborate with graduate students and postdoctoral fellows

Junior Academy of New York Academy of Sciences **NYC, NY**
Team Leader **OCT 2016 - JAN 2017**

- Remotely supervised 5 high school students on their research in machine learning
- Executed the research plan, objectives and deadlines for the project
- Communicated the results of the team through the online platform of the initiative

Research Science Institute **Cambridge, MA**
Scholar (one of the two students chosen to represent Bulgaria at RSI) **JUN 2015 - AUG 2015**

- Developed, wrote and published a research paper in abstract algebra
- Collaborated daily with graduate students and faculty members
- Developed and wrote a short report in statistics

PUBLICATIONS

- *On the Size of Unions of Lines in* F^n *Obeying the Wolff Axiom* at Proceedings of the Forty-sixth Spring Conference of the Union of Bulgarian Mathematicians Borovets, April 9–13, 2017
- *Results on Tilings with Walkup Structure and Their Properties* at Second International Conference “Mathematics Days in Sofia” July 10–14, 2017, Sofia, Bulgaria

AWARDS

- **Gold medalist** from the *International Olympiad in Linguistics* (IOL), India 2016
- **Finalist** at *Intel ISEF*, Phoenix 2016 & EUCYS (*European Contest for Young Scientists*), Milan 2015
- **First place** in the *International Mathematics Research Competition of Moscow*, 2015

SKILLS & LANGUAGES

- **Software skills:** Python, C++, C#, SQL, TensorFlow, Keras, scikit-learn, pandas, matplotlib, numpy, R, Git, GIthub, Linux, Jupyter, LaTeX, HTML, CSS, Cinema 4D, Blender
- **Languages:** English (full working proficiency), Bulgarian (native), Italian (limited proficiency), French (elementary proficiency)
- **Interests:** Discrete Mathematics, Algebraic Structures, Theory of Computation, Complexity Theory, Machine Learning, Applications of Algebra and Statistics in Machine Learning Algorithms