Kristian Georgiev

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EDUCATION

Massachusetts Institute of Technology (MIT)   **Cambridge, MA**
Candidate for B.S. in Mathematics and Computer Science   **JUN 2021**
In-major courses: Abstract Algebra, Discrete Applied Mathematics, Programming in Python, Algorithms, Machine Learning, Probability (Graduate), Inference, Computational Statistics, Algebraic Combinatorics

WORK & RESEARCH EXPERIENCE

QuantCo   **Berlin, Germany**
Quantitative Research Intern   **JUN 2018 - SEP 2018**

- Designed, implemented, and tested a variety of machine learning algorithms which resulted in the addition of features in the production model used for claims handling in health insurance (Python, R).
- Devised and investigated different hypotheses concerning the production data (SQL).
- Implemented a number of tools in Python and R (Shiny) to automate the analysis and testing workflow

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

- Collaborated with postdoctoral fellows to design and implement an algorithm for high-frequency wireless 3D tracking

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

- Developed a research paper in abstract algebra in collaboration with graduate students from MIT

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

SIDE PROJECTS & VOLUNTARY WORK

- Co-author of *EasyFill - a mobile app aimed to aid visually impaired people fill out forms.* Developed at PerkinsHacks 2018 Hackathon and acquired by EyeSyght.
- Lecturer & Team Leader at Plovdiv Academy, Bulgaria (2016-2017)
- Academic Counselor (2017) at Summer Research School for Mathematics and Informatics, Bulgaria

CLUBS & COMMUNITIES

- MIT Machine Intelligence Community
- Delta Psi (Nationally-affiliated co-ed Literary Society) - member and lecture series chair

SKILLS & LANGUAGES

- **Software skills:** Python (scikit-learn, pandas, matplotlib, numpy, TensorFlow, Keras), R (dplyr, shiny), Jupyter, SQL (SQL Server), Git, Github, Linux, LaTeX, HTML, JavaScript, Cinema 4D, Blender
- **Languages:** English (full working proficiency), Bulgarian (native), Italian (limited proficiency)
- **Interests:** Applied Discrete Mathematics, Theoretical Computer Science, Machine Learning, Applications of Algebra and Statistics in ML Algorithms, Applications of ML in healthcare