

# Kristian Georgiev

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<https://kristian-georgiev.github.io>

## EDUCATION

**Massachusetts Institute of Technology (MIT)**

**Cambridge, MA**

*B.S. Double Major in Mathematics and Computer Science (5.00/5.00 technical GPA)* JUN 2021

## WORK & RESEARCH EXPERIENCE

**Apple (Siri Understanding)**

**Cambridge, United Kingdom**

Machine Learning Research Intern

JUN 2019 - SEP 2019

- Devised, implemented, and tested design optimizations for state-of-the-art neural architectures for speech synthesis (TensorFlow).

**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 a number of hypotheses concerning the production data (SQL)
- Implemented tools to automate the analysis and testing workflow (Python, R (Shiny))

## 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 (2017)
- *On Tilings with Walkup Structure* at II International Conference "Mathematics Days in Sofia" (2017)

## AWARDS

- **Gold medalist** at 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
- Scholar at **Research Science Institute** 2015

## ON-CAMPUS ACTIVITY

- Intro to Machine Learning **Lab Assistant** (LA) Spring 2019, Intro to Inference **LA** Fall 2019
- MIT Machine Intelligence Community **President** 2019-2020, **Workshops Chair** Spring 2019, **Workshops TA** Fall 2018, **Member** 2017-2018
- Quest for Intelligence & Harvard Medical School - **Undergraduate Researcher** spring 2019
- Wilson Lab, Picower Institute of Learning and Memory - **Undergraduate Researcher** spring 2018
- Delta Psi (Number 6), Nationally-affiliated co-ed Literary Society - **Literary Chair, Sports Captain**

## SKILLS & LANGUAGES

- **Software skills:** Python (scikit-learn, pandas, matplotlib, numpy, TensorFlow, PyTorch), R (dplyr, shiny), SQL (SQL Server), Java, Linux, Bash, Git, Github, LaTeX, Jupyter, HTML, Cinema 4D
- **Languages:** English (full working proficiency), Bulgarian (native), Italian (limited proficiency)
- **Interests:** Probability, Applied Discrete Math, Theoretical Computer Science, Machine Learning

## SIDE PROJECTS & VOLUNTEERING

- **Co-author** of EasyFill - a mobile app aimed to aid visually impaired people to fill out forms. Developed at PerkinsHacks 2018 and acquired by EyeSyght.
- **Author** of FoosRank - a web app that keeps an ELO-based ranking and scoreboard of foosball games (mainly used at the Number 6 club). More than 500 games recorded from users since it was released.
- **Lecturer & Team Leader** at Plovdiv Academy, Bulgaria (2016-2017)
- **Academic Counselor** at Summer Research School for Mathematics and Informatics, Bulgaria (2017)