

Max Kontorovich

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Education

University of Michigan, Ann Arbor – April 2019
College of Literature, Science, and the Arts
Bachelor of Science, Pure Honors Mathematics
Bachelor of Science, Computer Science

Cumulative GPA: 3.982/4.000
Honors Program
Honors Track

Work and Research Experience

MATH 295, Ann Arbor, MI *Fall 2017 - present*

Course assistant

- Hold office hours and grade problem sets for the most rigorous freshman level math course

JPMorgan Chase & Co., New York, NY *Summer 2017*

Technology Analyst Program intern, Electronic Market Making team

- Used **C++** to develop a low-latency feed handler which processed live market data
- Integrated the handler into the larger codebase for a tool to compute real time fair-value of ETFs
- Wrote several **Python** scripts to parse data, perform end-of-day calculations, and update data files

Laboratory of Geometry, Ann Arbor, MI

Researcher in mathematics

Winter 2017

- Studied real dynamics in the context of billiards on closed curves in two and three dimensions
- Developed visualization tools to build intuition and for public use

Research Experience for Undergraduates, Ann Arbor, MI

Researcher in mathematics

Summer 2016

- Studied the behavior of roots of the permanent of complex matrices under Dr. Alexander Barvinok
- Implemented an algorithm to efficiently approximate the permanent from these roots
- Approximation gave extremely small error in cubic time, when computing exactly takes exponential time

Volunteering and Extracurricular Activities

UM Programming Team, Ann Arbor, MI *Fall 2017 – present*

- Solve complex and rigorous computer science problems under grueling deadlines

Math Circle, Ann Arbor, MI

Volunteer

Fall 2015 – present

- Math Circle gives local middle and high school students with a passion for mathematics a chance to hear non-standard talks from renowned Michigan math professors and guest speakers
- Help students with the material and help lecturers set up and manage learning activities

MHacks, Ann Arbor, MI

Fall 2015

- Built a user authentication system using the Myo armband to create a digital ‘secret handshake’

Skills and Awards

- *Technical Skills* - Proficient in C/C++, LaTeX, working knowledge Python, Maple, ARM ISA
- *Foreign Languages* – Russian (fluent speaking, basic reading and writing), French (intermediate)
- *Gloria Wille Belle & Carlos R. Bell Scholarship* – For distinguished STEM students
- *Ben Dushnik Mathematics Scholarship* – For academically talented math students
- *Evelyn O. Bychinsky Award* – For top undergraduate math students
- *William J. Branstrom Freshman Prize Recipient* – For Freshman in the top 5% of their class