

# Mikhail Stepanovich Ivkov

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EDUCATION	<b>Stanford University</b> , Stanford, California, USA ▪ Pursuing a PhD in Computer Science, in the Theory group. <b>Carnegie Mellon University</b> , Pittsburgh, Pennsylvania, USA ▪ Bachelor of Science in Computer Science (Algorithms Concentration), Math Minor • <b>GPA:</b> 3.85/4.0, Dean's List every semester	Sep 2021 – Present Aug 2017 – May 2021
RESEARCH EXPERIENCE	<b>Stanford University</b> ▪ Advised by Professor Tselil Schramm and Professor Nima Anari • Working on unifying algorithmic frameworks under a common convex relaxation (Sum of Squares) • Working on speeding up Markov Chain Monte Carlo problems in special instances. <b>Carnegie Mellon University</b> ▪ Undergraduate Honors Thesis, advised by Professor Pravesh K. Kothari • Paper on List Decodable Covariance Estimation accepted to and presented at STOC '22.	Sep 2021 – Present Jan 2020 – May 2021
WORK EXPERIENCE	<b>Sundeck</b> , Menlo Park, California, USA ▪ Software Engineering Intern • Core founding member of the SQL Analysis team, wrote a SQL parser in Go and implemented logical planning features. <b>Jane Street</b> , New York, New York, USA ▪ Quantitative Research Intern <b>Dropbox</b> , Remote ▪ Software Engineering Intern – Storage Platform Team <b>MongoDB</b> , New York, New York, USA ▪ Software Engineering Intern – Query Team <b>Dremio Corporation</b> , Santa Clara, California, USA ▪ Software Engineering Intern – Acceleration Team ▪ Software Engineering Intern - UI <b>MapR Data Technologies</b> , San Jose, California, USA ▪ Software Engineering Intern – QA	Jun 2022 – Sep 2022 Jun 2021 – Aug 2021 May 2020 – Aug 2020 May 2019 – Aug 2019 May 2018 – Aug 2018 Jun 2017 – Aug 2017 Jun 2016 – Aug 2016
TEACHING EXPERIENCE	<b>Stanford University</b> ▪ CS 161 (Design and Analysis of Algorithms) Teaching Fellow • Designed all lecture materials, homework assignments, and exams. • Introduced extra topics to course (treaps, segment trees, optimization). ▪ CS 161 (Design and Analysis of Algorithms) Head Teaching Assistant <b>Carnegie Mellon University</b> ▪ 15-251 (Theoretical Computer Science) Head Teaching Assistant ▪ 98-174 (Great Ideas in Tech Interviews & Coding Screens) Co-Instructor • Created and taught a student taught crash course on techniques which are useful for coding interviews. • Designed and wrote half of all lectures and homeworks. • Wrote all Java and C++ autograders for these problems, and approximately half of the Python autograders. ▪ 15-259 (Probability and Computing) Head Teaching Assistant ▪ 15-251 and 15-259 Teaching assistant (alternating fall and spring)	Jun 2023 – Aug 2023 Sep 2022 – Dec 2022 Aug 2020 – May 2021 Aug 2020 – May 2021 Jan 2020 – May 2020 Aug 2018 – May 2020
ACHIEVEMENTS	▪ NSF GRFP Fellow ▪ ACM-ICPC World Finals Qualifier (happening in November) • Team won 7th place at North America Championship ▪ School of Engineering Fellowship (Stanford) • Awarded to top 10% of incoming CS graduate students ▪ Alan J. Perlis Student Teaching Award (CMU) • Awarded to best student TA within the CS department ▪ Mark Stehlik Alumni Undergraduate Impact Scholarship (CMU) • Awarded for excellence in improving the School of Computer Science	Sep 2023 – Present May 2023 Sep 2021 – Jun 2022 May 2021 May 2021
LANGUAGES	▪ English: Native Language.      ▪ Russian: Native Language.	
PROGRAMMING	L <sup>A</sup> T <sub>E</sub> X, Mathematica, C++, Python, Java, Go, Shell Scripting, Drill SQL, MongoDB.	
INTERESTS	Competition math, Competitive programming, water polo, volleyball, CS for all, piano.	