

KISHLAYA JAISWAL

Chennai Mathematical Institute
Chennai 603103, IN
+91-879-555-4465
kishlaya@cmi.ac.in

EDUCATION	<i>Master of Science in Computer Science:</i> Chennai Mathematical Institute	2019-present
	<i>Bachelor of Science (Honours):</i> Mathematics & Computer Science (Overall CGPA 9.23) Chennai Mathematical Institute	2016-19
	<i>Bachelor of Technology (partial):</i> Computer Science & Engineering (Overall CGPA 9.9) Indian Institute of Information Technology	2015-16
	<i>High School:</i> St. Fidelis College (Percentile 89.8)	2011-15
RESEARCH EXPERIENCE	<i>Research Intern</i> Tata Institute of Fundamental Research, Mumbai Mentor: <i>Prof. Jaikumar Radhakrishnan</i> Topic: <i>Quantum Information and Quantum Algorithms</i> <ul style="list-style-type: none">• Studied different paradigms of Quantum Algorithms in the circuit model including Quantum search algorithms and Quantum Fourier transform based algorithms• Surveyed Quantum Random Walk based algorithms as a generalisation of the Grovers search algorithm• Studied the work on <i>Classical Verification of Quantum Computations</i> by Urmilla Mahadev	May 2019 - July 2019
INDUSTRY EXPERIENCE	<i>Julia Intern</i> AimsQuant, Delhi <ul style="list-style-type: none">• Integrated fundamental data stock for extending financial research operations	June 2018 - September 2018
	<i>Haskell Intern</i> Vacation Labs, Goa <ul style="list-style-type: none">• Built a real-life customer-facing project in Haskell• Introduced Elm into the tech-stack as a side effect	May 2018 - July 2018
	<i>Backend Engineering Intern</i> AimsQuant, Delhi <ul style="list-style-type: none">• Developed forward testing of investment strategies• Created a backend request scheduler• Integrated IJulia/IPython interactive notebook in the web-app to facilitate interactive financial research	June 2017 - July 2017

TEACHING ASSISTANCE EXPERIENCE	<i>Algebra II</i>	January 2019 - April 2019
	Instructed by Prof. Clare D'Cruz	
	<i>Probability Theory</i>	January 2019 - April 2019
	Instructed by Prof. B V Rao	
	<i>Functional Programming in Haskell</i> By NPTEL (National Programme on Technology Enhanced Learning)	January 2018 - April 2018
TECHNOLOGY SKILLS	<i>Advanced Programming</i>	January 2018 - April 2018
	Instructed by Prof. Samir Datta	
	<i>Programming in Haskell</i>	August 2017 - December 2017
	Instructed by Prof. S P Suresh	
	<i>Programming Languages:</i> Haskell, Julia, Python, Javascript, Mathematica <i>Operations Technologies:</i> AWS, Docker, CI/CD <i>Web Backend Technologies:</i> NodeJS, MongoDB, PostgreSQL, Redis, SocketIO, HAProxy <i>Web Frontend Technologies:</i> Elm, ReactJS, Bootstrap, SASS/SCSS, CoffeeScript, Google Poylmer <i>Typesetting Systems:</i> XML, L ^A T _E X	
COURSEWORK	<i>Computer Science:</i> Machine Learning by Andrew Ng (Coursera), Functional Programming (Haskell), Advanced Programming (Python), Discrete Mathematics, Design and Analysis of Algorithms, Advanced Algorithms, Theory of Computation, Programming Language Concepts, Implementation of FP Languages, Mathematical Logic, Proofs and Types, Linear Programming and Combinatorial Optimization, Data Structures, Computer Organization	
	<i>Mathematics:</i> Linear Algebra, Group Theory, Ring and Field Theory, Module Theory, Galois Theory, Commutative Algebra, Lie Group Theory, Representation Theory, Topology, Real Analysis, Complex Analysis, Riemann Surfaces, Calculus, Differential Equations, Probability Theory, Measure Theoretic Probability, Analytic Number Theory, Game Theory, Stochastic Processes, Coding Theory	
	<i>Physics:</i> Classical Mechanics, Basic Electronics, Electrical Circuit Analysis, Digital Design	
	<i>Others:</i> Economics, Linguistics, English, Environmental Sciences	
AWARDS & SCHOLARSHIPS	<i>Institutional Fee Waiver</i>	2016
	<i>Regional Mathematics Olympiad Qualifier Stipend</i>	2013
	<i>SOF's International Mathematical Olympiad Scholarship</i>	2014
	<i>SOF's National Cyber Olympiad Scholarship</i>	2014

COMMUNITY SERVICE	<i>Web Dev</i> College Tech <ul style="list-style-type: none"> • Developed college website 	2015 - 2016
	<i>Problem Writer</i> Proofathon <ul style="list-style-type: none"> • Helped to create online mathematical contest for high school students all around the world 	2014 - 2016
EXTRA-CURRICULAR ACTIVITIES	<i>Research Talk</i> Presented a talk on Ethereum - core and applications, at TCS Research Cafe, during Tessellate 2018	February 2018
	<i>Adventures of The Mind</i> Achievement-focused mentoring camp for the most promising high school students Got selected and sponsored by Brilliant.org	August 2015