

PRANAY MOHTA

Contact Information	Quantum Optics & Entanglement Lab CL 104E, IIT Kanpur Kanpur, Uttar Pradesh, India	mohtapranay01@gmail.com pmohta@iitk.ac.in Ph: +917980625513 Pin: 208016
Education & Research Experience	Doctor of Philosophy, Physics Indian Institute of Technology Kanpur Quantum Optics and Entanglement Lab Supervisor: Prof. Anand Kumar Jha	2021 – Present CPI: 9.5
	Master of Science, Physics Indian Institute of Technology Kanpur Project Supervisor: Prof. Dipankar Chakrabarti Project: Application of Random Matrix Theory in Lattice Gauge Calculations.	2019 – 2021 CPI: 9.0
	B.Tech, Electronics & Communication Engineering Institute of Engineering & Management, Kolkata Project Supervisor: Prof. K. K. Ghosh Project: Electron transport in nanowire	2014 – 2019 DGPA: 8.64
Research Interests	Experimental Quantum Optics & Quantum Information, specifically on the following topics: quantum entanglement, coherence, metrology, communication, measurement, imaging and foundations of quantum theory.	
Publications	Quantifying polarization changes induced by rotating Dove prism and K-mirrors; Suman Karan, Ruchi, <u>Pranay Mohta</u> , A. K. Jha; Applied Optics, 61, 8302 (2022) – <i>Selected as Editor's pick</i>	
Skills	Experimental: Engineering & measuring state of light, interferometry, imaging through random media. Programming: Python, Mathematica, C++ Software: Latex, Labview, MS Office, MySQL, Adobe Illustrator, Matlab Parallel Programming, Machine Learning	
Work Experience	Intern at Orient Electric in Design and R&D Department.	Jan 2017 – Feb 2017
	Intern at Electronics Equipment Company Pvt. Ltd. in Design and R&D Department.	June 2017 – July 2017
Academic Achievements	1. PMRF Fellow 2. Secured AIR 43 in IIT JAM (Physics) 2019 3. Secured AIR 39 in JEST (Physics) 2019 4. Secured 97.26 percentile in CAT 2018	
Teaching Experience	Teaching Assistant in Electrodynamics (PHY 103), Coherence & Quantum Entanglement (PHY 690G), Transform Techniques for Engineers (NPTEL)	