# Nikhil Pappu

## **Basic Info**

: nikpappu@pdx.edu

www: http://nikhilpappu.info

First year Computer Science PhD student at Portland State University. Interested in cryptography, complexity theory, quantum computing, and more broadly in theoretical computer science.

## **Institutions**

2021-	PhD in Computer Science Portland State University, USA Conducting research focusing on post-quantum cryptography.
2016-2021	Integrated M.Tech in Computer Science and Engineering IIIT Bangalore, India CGPA: 3.39/4.00

## **Experience**

Winter 2022	Teaching Assistant - Introduction to Cryptography Portland State University Instructor: Fang Song
Fall 2021	Teaching Assistant - Discrete Structures II Portland State University Instructor: Suresh Singh
Spring 2021	Master's Thesis  IIIT Bangalore Advisor: Ashish Choudhury Finished my master's thesis titled Perfectly-Secure Asynchronous Multiparty Computation for General Adversaries.
Spring 2021	Teaching Assistant - Foundations of Cryptography IIIT Bangalore Instructors: Ashish Choudhury, Srinivas Vivek
FALL 2020	Research in Secure Multi-Party Computation IIIT Bangalore Advisor: Ashish Choudhury Studied information-theoretic secure multi-party computation tolerating a generalized non-threshold adversary in the asynchronous communication model. Submitted some of our results in a paper titled Perfectly-Secure Asynchronous MPC for General Adversaries (Extended Abstract), which has been published in INDOCRYPT 2020.
FALL 2020	Teaching Assistant - Discrete Mathematics IIIT Bangalore Instructor: Ashish Choudhury
Summer 2018	Open Source Developer - Google Summer of Code 2018  SymPy: a Python library for symbolic mathematics. Mentors: Jason Moore, Ondřej Čertík  Implemented a parser that translates Autolev (a proprietary symbolic dynamics language, now superseded by MotionGenesis) code to SymPy code using the ANTLR parser generator. More details here, and here.

## **Publications**

Skills

2020	Perfectly-Secure Asynchronous MPC for General Adversaries (Extended Abstract)
	Ashish Choudhury, Nikhil Pappu
	INDOCRYPT 2020

## **Programming Skills**

Python, C, C++, Java, HTML5, Javascript, Git, Jenkins, Docker, MySQL, Android, LaTeX/X3LTeX, bash/shell, SciPy, scikit-learn