



Prince Mathew

Ph.D. Scholar
Theoretical Computer Science
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PERSONAL INFORMATION

Date of Birth :11-08-1992
Gender :Male
Citizenship :Indian
Permanent Address :Kollaparampil House, Thachakunnu, Puthuppally P.O, Kottayam, PIN - 686011

CAREER PROFILE

I am pursuing my Ph.D. in Theoretical Computer Science under the guidance of Dr. Sreejith A.V. in the School of Mathematics and Computer Science at Indian Institute of Technology Goa.

EDUCATION

- Indian Institute of Technology Goa** *January 2019 to at present*
Ph.D. in Theoretical Computer Science *CPI: 8.45*
- Chennai Mathematical Institute, Tamil Nadu** *January 2020 to June 2020*
Ph.D. Coursework
- College of Engineering Trivandrum, Kerala** *August 2014 to April 2016*
M.Tech in Computer Science and Engineering *CGPA: 9.11*
- Saintgits Engineering College, Kerala** *July 2010 to April 2014*
B.Tech in Computer Science and Engineering *CGPA: 7.62*

EXPERIENCE

- Indian Institute of Technology, Goa** *February 2018 to December 2018*
Junior Research Fellow
- Tata Elxsi, Trivandrum** *January 2017 to January 2018*
Senior Engineer
- Central Polytechnic College, Trivandrum** *June 2016 to October 2016*
Guest Lecturer

PUBLICATIONS

- One deterministic-counter Automata** *January 31, 2023*
Co-authors: Dr. Vincent Penelle, Dr. Prakash Saivasan, Dr. Sreejith A.V. *arXiv*
- CAP: A Cellular Automata based fuzzy classifier** *February 26, 2022*
Co-authors: Dr. Abdul Nizar M *Materials Today Proceedings*
- Optical music recognition using image processing and machine learning** *August 11, 2018*
Co-authors: Rahul Vijayakumar, Aju Tom Kuriakose, Jesmy Sunny, Dr. Ramani Bai V *IJCSE*
- Survey on Fuzzy Logic & Fuzzy Classifiers based on Continuous Cellular Automata** *August 20, 2016*
Co-authors: Dr. Abdul Nizar M *NCTT*

RESEARCH VISITS

- The Institute of Mathematical Sciences, HBNI** *June 1 to 30, 2022*

👤 PROJECTS

•MoES - River Width Extraction Project

February 2018 to December 2018

Web application for MoES for calculating water discharge in rivers from satellite images.

- Tools & technologies used: Python, Django
- This work was done as a part of a joint project with Dr. Sreejith A.V (IIT Goa) and Dr. Gaurav Kumar (IISER Bhopal).

•Skill Center - Tata Elxsi

January 2017 - February 2018

Web application to manage employee profiles of Tata Elxsi.

- Tools & technologies used: C#, MVC, .NET
- The application manages skills, project allocation, training, funnel management, performance evaluations, and resume creation. It helps assign projects based on employee skills, plan and track training, search for employees, assess performance, and create resumes.

•Fuzzy Classifier using Continuous Cellular Automata

June 2015 - September 2016

Continuous Cellular Automata based fuzzy classifier in Java using Weka.

- Tools & technologies used: Java, Weka
- Project done as part of Masters degree thesis.

•Open Image Transcriptor

June 2013 - June 2014

Image processing tool to recognise musical notes from sheet music and convert it into MIDI file.

- Tools & technologies used: Java, Python
- Project done as part of Undergraduate project.

🏢 POSITIONS OF RESPONSIBILITY

- Member: Senate Students Advisory Committee, IIT Goa

November 2019 to December 2021

🎭 OTHER ACTIVITIES

- Reviewed NPTEL transcripts for the course “Theory of Computation” by Prof. Somenath Biswas
- Volunteered and contributed towards the successful organisation of FSTTCS 2021 and FSTTCS 2022
- Successfully cleared the UGC NET examination and have met the eligibility criteria for lectureship
- Passed BEC vantage conducted by University of Cambridge
- Passed grade 5 vocals with merit conducted by Trinity College London
- Passed grade 3 piano with merit conducted by Trinity College London
- Earned the “Rashtrapathi Scout” award

🎤 IMPORTANT TALKS

- One deterministic-counter automata, CS seminar talk, IIT Goa February 2023
- CAP: A cellular automata based fuzzy classifier, AIES 2021 December 2021
- Learning regular sets from queries and counterexamples, CS research talk, IIT Goa September 2021
- Equivalence of deterministic one counter automata, Automata series talk, IIT Goa June 2020
- Optical music recognition using image processing and machine learning, IJCSE 2018 August 2018