

PHILIPS GEORGE JOHN

PERSONAL DATA

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EDUCATION

- AUG 2020 — PRESENT **PhD Student, School of Computing
National University of Singapore**
Supervisor: Prof. ARNAB BHATTACHARYYA
- AUG 2016 – JUL 2018 **Master of Technology (M.Tech)
Indian Institute of Science, Bangalore**
Major: Computer Science and Engineering
Thesis: “Distributed Control Algorithms for Autonomous Mobile Robots
and Extractors for Polynomial Sources”
Advisor: Prof. ARNAB BHATTACHARYYA
CGPA: 8.6/10 (FIRST CLASS WITH DISTINCTION)
- JUL 2010 – JUN 2014 **Bachelor of Technology (B.Tech)
Mahatma Gandhi University, Kottayam**
Major: Computer Science and Engineering
College: Govt. Rajiv Gandhi Institute of Technology, Kottayam
CGPA: 7.97/10 (FIRST CLASS)

WORK EXPERIENCE

- JUL 2018 – JUN 2020 | Blue Scholar at IBM INDIA RESEARCH LAB, Bengaluru
AI Engineering - Data & Security Team
Worked on research projects related to fairness and explainability of machine learning models.
- JUN 2014 – JUL 2016 | Applications Engineer at ORACLE INDIA, Trivandrum
Worked on mobile apps development for Oracle Sales Cloud.

PUBLICATIONS

- Swastik Haldar, Philips George John and Diptikalyan Saha. “Reliable Counterfactual Explanations for Autoencoder based Anomalies”.
CODS-COMADS 2021 ([Link](#)).
- Philips George John, Deepak Vijaykeerthy and Diptikalyan Saha. “Verifying Individual Fairness in Machine Learning Models”.
UAI 2020 ([Link](#)).
- Reena Murali, Philips George John and David Peter S. “Soft computing model for optimized siRNA design by identifying off target possibilities using artificial neural network model”.
Gene, 562(2):152–158, 2015 ([Link](#)).
- (**M.Tech. thesis**) “Distributed Control of Autonomous Mobile Robots and Extractors for Polynomial Sources”.

TALKS

- Verifying Individual Fairness in Machine Learning Models. UAI 2020 Paper Presentation.

TEACHING ASSISTANTSHIPS

- Teaching Assistant for the CS1231S: Discrete Structures course offered by Prof. Aaron Tan and Prof. Tin Lok Wong (NUS, Aug – Dec 2021).
- Teaching Assistant for the CS3230: Design and Analysis of Algorithms course offered by Prof. Diptarka Chakraborty (NUS, Jan – Apr 2021).
- Teaching Assistant for the E0 225: Design and Analysis of Algorithms course offered by Prof. Arnab Bhattacharyya and Prof. Anand Louis (IISc Bangalore, Aug – Dec 2017).
- Teaching Assistant for the Linear Algebra (NPTEL) online course offered by Prof. Dilip P. Patil (IISc Bangalore, Jan – Apr 2017).