

Contact information

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<http://airdipu.io>

[ResearchGate](#)

[Google Scholar](#)

[GitHub](#)

Current employment

Doctoral Researcher

01/2024–Present

Department of Computer Science/INAR
Faculty of Science
University of Helsinki, Finland

Education

Doctor of Philosophy in Computer Science

05/2024–Present

Department of Computer Science
Faculty of Science
University of Helsinki, Finland

Master of Science in Technology

03/2023

Mathematical Modeling of Complex Systems (Major: Applied Mathematics)
Mathematical Institute
Faculty of Mathematics & Natural Sciences
Universität Koblenz, Germany
Thesis title: *On Bayesian approach to experimental design.*

Master of Science in Technology

08/2022

Data-Centric Engineering (Major: Applied Mathematics)
Department of Computational Engineering
Lappeenranta-Lahti University of Technology, Finland
Thesis title: *On Bayesian approach to experimental design.*

Master of Science in Statistics

05/2018

Department of Statistics
School of Physical Sciences
Shahjalal University of Science and Technology, Bangladesh

Bachelor of Science in Statistics

06/2015

Department of Statistics
School of Physical Sciences
Shahjalal University of Science and Technology, Bangladesh

Previous employment

Data Scientist

05/2023–11/2023

Geeklab Oy, Finland

Responsibility: *Optimization of hypothesis testing and mobile app store using Bayesian statistics, implementation of predictive model and Generative AI model.*

Research Assistant

06/2022–12/2022

HAMK Smart Research Unit

Häme University of Applied Sciences, Finland

Responsibility: *Develop anomaly detection using supervised and unsupervised method from smart sensor data of HAMK Smart project and publishing report.*

Part-time Teacher

09/2021–12/2021

LUT School of Engineering Science

Department of Software Engineering

Lappeenranta-Lahti University of Technology, Finland

Responsibility: *Creating study materials, quiz and assignments, taking classes and exams, evaluated projects and exam copies and finalise the course marking.*

Research Assistant (part-time)

02/2019–07/2020

Department of Computational Social Science

GESIS—Leibniz Institute for the Social Sciences, Germany

Responsibility: *Benchmarking of machine learning methods for demographic inference from profile pictures and person names, as well as training of a Convolutional Neural Network for the same purpose and labelling of trying data.*

Research Assistant

03/2015–05/2018

Department of Statistics

Shahjalal University of Science and Technology, Bangladesh

Responsibility: *Assisting questionnaire preparation and pre-testing, collecting primary data, data editing and entry, assisting in statistical analysis and report writing.*

Awards and grants

LUT Scholarship for graduation (160€) for the completion of the degree in one year from LUT School of Engineering Science (LENS) in October, 2022.

Grant of 100% Tuition Fee Waiver (10 000€) for the Master's Programme in Data-Centric Engineering at Lappeenranta-Lahti University of Technology LUT, period August, 2021–June, 2022.

Travel grant (1 800€) to attend the BigSurv18 conference in Barcelona, Spain from European Survey Research Association (ESRA), Southampton, GB in October, 2018.

Research projects

Project funding from Academy of Finland for "Artificial Intelligence systems for enhancing sensing technologies and scientific discoveries", principal investigator Dr Martha Arbayani Zaidan during 2023-2027. (656 464 €)

Baseline study funding from Save the Children International, Bangladesh for "Maternal-neonatal health care and family planning (Mamota)", principal consultant of the study Prof. Dr Md Zakir Hossain during 2017-2018. (600 000 BDT)

Project funding from University Research Center, SUST for "Evaluating capacity for climate change adaptation in food productivity through local knowledge in the north-eastern region of Bangladesh", principal investigator Dr Kanis Fatima Ferdushi during 2017-2018. (180 000 BDT)

Project funding from University Research Center, SUST for "Modeling Multidimensional elderly disease outcomes using classical and bayesian approaches", principal investigator Mohammad Romel Bhuia during 2015-2017. (180 000 BDT)

Language skills

Bengali (Native)

English (Professional)

German (Beginner)

Finnish (Beginner)