

Contact information

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[ResearchGate](#)

[Google Scholar](#)

[GitHub](#)

<http://airdipu.io>

Current employment**Doctoral Researcher (Academic Career Stage I)**

01/2024–Present

Department of Computer Science &
Institute for Atmospheric and Earth System Research (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

03/2023

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

Master of Science in Technology (Double Master's)

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

05/2018

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

Bachelor of Science

06/2015

Statistics
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

Responsibilities: Optimized of hypothesis testing and mobile app store using Bayesian statistics, implemented machine learning models, matching algorithm and Generative AI model.

Research Assistant

06/2022–12/2022

HAMK Smart Research Unit

Häme University of Applied Sciences, Finland

Responsibilities: Developed anomaly detection using supervised and unsupervised method in smart sensor data from smart home, 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

Responsibilities: Created study materials, quiz and assignments, delivered lectures and evaluated projects and exam copies and finalised the course marking.

Research Assistant (Part-time)

02/2019–07/2020

Department of Computational Social Science

GESIS—Leibniz Institute for the Social Sciences, Germany

Responsibilities: Benchmarked machine learning methods for demographic inferences from profile pictures and person names, as well as trained Convolutional Neural Network for the same purpose and labeled training data.

Research Assistant

03/2015—05/2018

Department of Statistics

Shahjalal University of Science and Technology, Bangladesh

Responsibilities: Assisted questionnaire preparation and pre-testing, collecting of primary data, data editing and entry, statistical analysis and report writing for several project.

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 Research Fellowship for "Artificial Intelligence systems for enhancing sensing technologies and scientific discoveries", principal investigator Dr Martha Arbayani Zaidan during 2023-2027. (937 803€, 70% by the Research Council of Finland and 30% by the University of Helsinki, Finland)

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 or 6 550€)

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 or 1 967€)

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 or 2 084€)

Language skills

Bengali (Native)

English (Professional)

German (Beginner)

Finnish (Beginner)