

## Contact information

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<http://airdipu.io>

[ResearchGate](#)

[Google Scholar](#)

[GitHub](#)

## Current employment

### Doctoral Researcher

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

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  
Responsibilities: *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  
Responsibilities: *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  
Responsibilities: *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  
Responsibilities: *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  
Responsibilities: *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 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)

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)