

Engineer Robiul Islam

Research Instructor | System and Software Engineering Specialist | Neuro engineer | Computational Neuroscience and Machine Learning Enthusiast

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Experience

- **Independent University, Bangladesh (IUB)** Dhaka, Bangladesh
Assistant professor (Adjunct Faculty) Jan-2025 to May 2025
 - Took class and exam
 - Give project and review
 - Assessment of lab activity
- **Innopolis University** Innopolis City, Russia
Teaching Assistant August-2020 to December 2022
 - Receive pedagogical experience
 - Develop pedagogical competencies
 - Develop Lab slides that can be used for current further courses.
- **Laboratory for Models and Methods of Computational Pragmatics** Moscow, Russia
Research Assistant September-2019 to June-2020
 - Performing research on a laboratory project
- **Intelligent Design & Dynamic Ltd** Dhaka, Bangladesh
Software Engineer April-2017 to June-2018
 - Create a user management software
 - Worked on real time application for hospital nurse
- **City University** Dhaka, Bangladesh
Lecturer of Department of Computer Science and Engineering Fall-2016
 - Took class
- **Khwaja Yunus Ali University** Sirajganj, Bangladesh
Acting Head of Department of Computer Science and Engineering April-2016 to August-2016
Lecturer of Department of Computer Science and Engineering Jan-2016 to August-2016
 - Took class
 - Updated and re-evaluate syllabus for computer science
- **East West University** Dhaka, Bangladesh
Graduate Teaching Assistance May-2013 to August-2013
 - Helped teacher to organized lab and help students
- Undergraduate Teaching Assistance* January-2013 to April-2013
 - Helped teacher to organized lab and help students

Education

- Innopolis University (IU)** Innopolis City, Russia
Completed in July 2024

Researcher. Research instructor (Doctoral Program)

 - Defense Date: July 3, 2024
 - Orientation (Profile) : Computer Science and Information Processes
 - Supervisor :
 - * Alexander Hramov, Professor (upto September 2022)
 - * Alexander Maloletov, Professor (October 2022 to July 2024)
 - Adviser : Leonard Johard , Postdoctoral researcher (October 2022 to July 2024)
 - Thesis title : Analyzing sensor information processing in the human brain using EEG
 - Candidate examinations: Foreign Language ; History and Philosophy of Science ; Theoretical Computer Science
- National Research University Higher School of Economics (HSE)** Moscow, Russia
Completed in June 2020

Master's Programme 'System and Software Engineering'

 - CGPA : 8.06 on a scale of 10.0
 - Supervisor : Dmitry I. Ignatov, Associate Professor
 - Thesis title : Software Tools for Demographic Sequence Analysis
- Islamic University of Technology (IUT)** Gazipur, Bangladesh
Completed in August 2018

Master of Science in Computer Science and Engineering

 - CGPA : 3.13 on a scale of 4.0
 - Supervisor : Dr. Kamrul Hasan, Professor
 - Thesis title : Alphabet recognition in unconstrained Air Writing using Depth Information
- East West University (EWU)** Dhaka, Bangladesh
Completed in April-2013

Bachelor of Science in Computer Science and Engineering

 - CGPA: 3.30 on a 4.0 scale (Equivalent to 83% as per EWU grading system)
 - Thesis Title: Evolutionary Algorithm for Graph Coloring Problem
 - Supervisor: Dr. Md. Mozammel Huq Azad Khan, Professor

Teaching Experience Expanded

Course	Role	Location	Time
Computer Organization and Architecture	Assistant professor	Independent University Bangladesh (IUB)	Spring 2025
Web Applications and Internet			
Logic and Discrete mathematics	Teaching Assistance	Innopolis University	Fall 2021-22
Neuroscience, Master's			Spring 2021-22
Theoretical Computer Science			Fall 2020
Discrete mathematics	Co-Teaching Assistance		
Introduction to Computer	Lecture	City University	Fall 2016
Automata Theory			
Discrete mathematics		Khwaja Yunus Ali University	
Structure Programming			
Introduction to computer			
Electrical Circuit	Graduate Teaching Assistance	East West University	Spring 2013
	Under-graduate Teaching Assistance		Summer 2013

Publications

- [1] **Islam, Robiul**, Dmitry I. Ignatov, Karl Kaberg, and Roman Nabatchikov. "Exploring the Relationship between Brain Hemisphere States and Frequency Bands through Deep Learning Optimization Techniques." arXiv preprint arXiv:2509.14078 (2025).[dblp¹]
- [2] **Robiul Islam**, Leonard Johard, Mohammad Reza Bahrami, and Mustafeed Zaman. *An Analytic Hierarchy Process for Student Motivation*. In Agents and Multi-agent Systems: Technologies and Applications 2023: Proceedings of 17th KES International Conference, KES-AMSTA 2023, June 2023, pp. 277-288. Springer Nature Singapore. [Demonstration², scopus³]
- [3] Anna Muratovaa, Ekaterina Mitrofanovaa, **Robiul Islam** . *Explainable Machine Learning for Sequences of Demographic Statuses* Procedia Computer Science 212 (2022): 358-367. [scopus³]
- [4] **Robiul Islam**, Andrey V. Andreev , Natalia N. Shusharina, Alexander E. Hramov . *Explainable machine learning methods for classification of brain states during visual perception* Mathematics. 2022; 10 (15):2819; Aug 5; DOI : <https://doi.org/10.3390/math10152819>. [Web of science (Q1)⁴, scopus³]
- [5] **Robiul Islam** . *Interpretable Models and Patterns for EEG data set* The Fifth Scientific School "Dynamics of Complex Networks and their Applications" (DCNA'2021),Kaliningrad, Russia , September 13-15, 2021. p. 87-91 . [scopus³, Demonstration²]
- [6] Anna Muratova, Ekaterina Mitrofanova, and **Robiul Islam**. *Comparison of Machine Learning Methods for Life Trajectory Analysis in Demography*. Intelligent Information and Database Systems: 13th Asian Conference, ACIIDS 2021, Phuket, Thailand, April 7–10, 2021, Proceedings 13. Springer International Publishing, 2021. P. 630-642. [scopus³, dblp¹, Web of science ⁴]
- [7] Hasan Mahmud, **Robiul Islam**, Md. Kamrul Hasan *On-air English Capital Alphabet (ECA) recognition using depth information*, Visual Computer (2021) , January 2021, ISSN : 0178-2789, doi: <https://doi.org/10.1007/s00371-021-02065-x>. [scopus³, dblp¹, Web of science (Q2)⁴]
- [8] Anna Muratova, **Robiul Islam**, Ekaterina Mitrofanova, Dmitry I. Ignatov *Searching for Interpretable Demographic Patterns*, in: Proceedings of the Fifth Workshop on Experimental Economics and Machine Learning the National Research University Higher School of Economics co-located with the Seventh International Conference on Applied Research in Economics (iCare7) Aachen : CEUR Workshop Proceedings, 2019. P. 18-31. [scopus³]
- [9] Md Rafiqul Islam, Md Abu Raihan Mostafa Kamal, Naznin Sultana, Mohammad Ali Moni, **Robiul Islam** and Anwaar Ulhaq *Depression Detection Using K-Nearest Neighbors (KNN) Classification Technique*, International Conference on Computer, Communication, Chemical, Materials and Electronic Engineering, 2018 , pages 1-4, 2018 . [scopus³, Demonstration²]
- [10] **Robiul Islam**, Hasan Mahmud, Md. Kamrul Hasan, Husne Ara Rubaiyeat *Alphabet Recognition in Air Writing Using Depth Information*, ACHI 2016 : The Ninth International Conference on Advances in Computer-Human Interactions, page 299-301, April-2016, Venice Italy. ISBN: 978-1-61208-468-8.

Achievement

Scholarship

- Full Scholarship , Innopolis University, Russia ;2020-24
- State Academic Scholarship , National Research University Higher School of Economics, Russia ;2018-20

Reviewer

¹Cited by DataBase systems and Logic Programming

²Presented in conference

³Cited by scopus

⁴Web of Science Core Collection

- DAMDID/RCDL 2023 : Data Analytics and Management in Data Intensive Domains
- AMSTA 2023 : 17th International Conference on Agent & Multi-Agent Systems: Technologies & Applications

Funds/Grands

- Institute of Software Development and Engineering fund for Paper publication , Innopolis University 2023 ;Amount Received : 625 EUR
- Program of Scientific School Support: NSH-589.2022.1.2; Program of Peoples' Friendship University of Russia: RUDN ; Amount Received : 1800 CHF
- Student Affairs and Development Office fund for Paper publication , Innopolis University 2021 ; Amount Received : 11550 Rub
- Russian Science Foundation under grant 17-11-01294 , 2019
- Basic Research Program at the National Research University Higher School of Economics and funded by the Russian Academic Excellence Project '5-100', 2019,21
- ICT Division Fellowship from ICT Division,Government of the People's Republic of Bangladesh, 2016-17; Amount Received : 290000 BDT

Other

- Nomination << *SILVER CHILD* >> Golden HSE Award 2019
- Finalist of The Ilya Segalovich Award ,Honor date: Apr 2018, Honor Issuer: Yandex
- IEEE VOLT program Graduate 2017

Workshop/ Online course / Congress

- **Instructional Skill Workshop**, June 16, 2021, Innopolis University
- **Innopolis University Seminar**
- **IEEE R10 HardTech Summit 2017**, Organizer : IEEE Malaysia Young Professionals , Nov 4-5 2017
- **Workshop on creative questions**, March 19, 2016, Khwaja Yunus Ali University
- **IEEE Pro Talks 2015**, 10-Oct-2015 , IEEE Bangladesh Section , BUET
- **C#/ASP.Net under Hitech Park**, 1-Jan-2015 to 14-May-2015 (144 hours), IBCS - Primax Software Bangladesh Ltd.
- **Cloud Computing and Big Data - A Paradigm Shift in ICT** ,1 to 5 December 2014, Islamic University of Technology, Dhaka, Bangladesh
- **IEEE R10 Congress Hyderabad 2013**, July 11th to July 14th, 2013 in Hotel Taj Krishna of Hyderabad, India

Skills

Technical Skills

Programing Languages : Python, Matlab-Simulink

ML/DL Tools: Keras

Language Proficiency

Bengali (Native)

English (Proficient)

Membership

- **Institute of Electrical and Electronics Engineers, *IEEE*** Bangladesh Section (Current)
Professional Member Since January-2012

Publication (non- research)

- Title (Poetry Book) : **Poems by ChatGPT** ; Publisher: Worthy Publications; Country:Bangladesh; Language: English and Bangla ; Year : 2023

Voluntary Activities

- 4th Neuro-Symbolic AI Summer School, organized by Centaur AI Institute, August 14–15, 2025
- Judge of The Darrel Chong Student Activity Award (IEEE activity) 2023
- Take seminar on April 20 & 28 , 2021 Title : Sensor Information Processing. Location : Innopolis University
- Volunteers (Organizing Committee) at The 9th International Conference on Analysis of Images, Social Networks and Texts 2020
- Writer & Editor, Inno Media Club, Innopolis University, 2020-21.
- Volunteer of Software Engineering Conference Russia 2018
- Executive Committee (ExCom) Member (Industrial Activity Coordinator), IEEE Bangladesh Section Computer Society Chapter 2018
- Advisor, IEEE Bangladesh Section Activities Committee 2017
- Educational Activity Coordinator, 2015 committee of IEEE Young Professionals, Bangladesh Section
- Event Coordinator at IEEE student Branch, East West University from Aug 1, 2012 to Feb 20, 2013
- General Member of East West University Science Club from 2009 to 2013

References

References available upon request.