



## SAIFUL ISLAM

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Scopus ID: 57209548943      Born: 30 April, 1994

### WORK EXPERIENCES

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*October 2023 – Present*

**Lecturer, Department of Mathematics**  
**Bangabandhu Sheikh Mujibur Rahman Science and Technology University, Gopalganj 8100, Bangladesh**

*January 2019 – September 2023*

**Lecturer, Department of Computer Science and Engineering**  
**Stamford University Bangladesh, Dhaka 1217, Bangladesh**

*September 2018 – January 2019*

**Lecturer, Department of Mathematics**  
**European University of Bangladesh, Dhaka 1216, Bangladesh**

*July 2016 – July 2018*

**Research Assistant, Department of Mathematics**  
**Jashore University of Science and Technology University, Jashore 7408, Bangladesh**

### EDUCATION

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*2019 - 2023*

**Master of Philosophy in Mathematics**  
**Bangladesh University of Engineering and Technology, Dhaka, Bangladesh**

- CGPA: [3.69/4.00](#)
- Thesis title: "A numerical investigation with Sensitivity Analysis of Heat Transfer Performance in a Heat Exchanger Containing Nanofluids"
- Research Supervisor: Prof. Dr. Md. Mustafizur Rahman

*2016 - 2017*

**Masters of Science in Applied Mathematics**  
**Bangabandhu Sheikh Mujibur Rahman Science and Technology University, Gopalganj 8100, Bangladesh**

- CGPA: [3.96/4.00 \(First Position\)](#)
- Thesis title: "Video-Based Human Action Recognition Using Skeleton Features"
- Research Supervisor: Md. Sirajul Islam and Co-supervisor: Dr. Farhad Bulbul

*2012 - 2015*

**Bachelor of Science in Mathematics**  
**Bangabandhu Sheikh Mujibur Rahman Science and Technology University, Gopalganj 8100, Bangladesh**

- CGPA: [3.59/4.00 \(Third Position\)](#)
- Thesis title: "A Comparative Study on Discrete Fourier Transformation for Digital Signal Analysis"
- Research Supervisor: Dr. Muhammad Minarul Islam

### Research Interests

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- Computational Fluid Dynamics
- Numerical Heat and Mass Transfer
- Bio-engineering
- Machine Learning
- Artificial Intelligence

## International Journals

- [1] **Saiful Islam**, Muhammad Minarul Islam, B.M.J Rana, Md Sirajul Islam, Sk Reza-E-Rabbi, Md Shahadat Hossain, M.M. Rahman, "Numerical investigation with sensitivity study of MHD mixed convective hexagonal heat exchanger using TiO<sub>2</sub>-H<sub>2</sub>O nanofluid". *Results in Engineering*, [ESCI, IF: 5.0, Q2](#), Vol. 18, 101136 (2023). <https://doi.org/10.1016/j.rineng.2023.101136>.
- [2] **Saiful Islam**, B.M.J. Rana, Md. Shohel Parvez, Md. Shahadat Hossain, M.M.Rahman, "Electroosmotic flow in Ternary (TiO<sub>2</sub>-SiO<sub>2</sub>-Al<sub>2</sub>O<sub>3</sub>) Blood-based Sutterby Nanomaterials with Bio-active Mixers". *International Journal of Thermofluids*, [SCOPUS, Cite Score: 9.2, Q1](#), Vol. 18, 100363 (2023). <https://doi.org/10.1016/j.ijft.2023.100363>.
- [3] **Saiful Islam**, Tanmoy Boiragi, Tarikul Islam, B.M.J. Rana, Sk. Reza-E-Rabbi, M.M.Rahman, "Heatline visualization in hydromagnetic natural convection flow inside a prismatic heat exchanger using nanofluid". *International Journal of Thermofluids*, [SCOPUS, Cite Score: 9.2, Q1](#), Vol. 16, pp. 1-12 (2022). <https://doi.org/10.1016/j.ijft.2022.100248>.
- [4] Sk. Reza-E-Rabbi, Sarder Firoz Ahmmed, **Saiful Islam**, S. M. Arifuzzaman, B. M. J. Rana, Md. Yousuf Ali, Abdullah Al-Mamun, Md. Shakhaoath Khan, "Characterization of fluid flow and heat transfer of a periodic magneto-hydrodynamics nano non-Newtonian liquid with Arrhenius activation energy and nonlinear radiation". *Heat Transfer*, [ESCI, IF: 4.11, Q2](#), Vol. 51(7), pp. 6578-6615 (2022). <https://doi.org/10.1002/htj.22614>.
- [5] B. M. Jewel Rana, S. M. Arifuzzaman, **Saiful Islam**, Sk. Reza-E-Rabbi, Sarder Firoz Ahmmed, Md. Shakhaoath Khan, "Swimming of microbes in entropy optimized nano-bioconvective flow of Prandtl-Eyring fluid". *Heat Transfer*, [ESCI, IF: 4.11, Q2](#), Vol. 51(6), pp. 5497-5531 (2022). <https://doi.org/10.1002/htj.22557>
- [6] Sk. Reza-E-Rabbi, Md. Shakhaoath Khan, S.M. Arifuzzaman, **Saiful Islam**, Pronab Biswas, B.M.J. Rana, Abdullah Al-Mamun, Taswar Hayat, Sarder Firoz Ahmmed, "Numerical simulation of a non-linear nanofluidic model to characterize the MHD chemically reactive flow past an inclined stretching surface". *Partial Differential Equations in Applied Mathematics*, [SCOPUS, Cite Score: 3.4, Q2](#), Vol. 05, pp. 1-11 (2022). <https://doi.org/10.1016/j.padiff.2022.100332>.
- [7] B.M.J. Rana, S.M. Arifuzzaman, **Saiful Islam**, Sk. Reza-E-Rabbi, Abdullah Al-Mamun, Malati Mazumder, Kanak Chandra Roy, Md. Shakhaoath Khan, "Swimming of Microbes in Blood Flow of nano-bioconvective Williamson fluid". *Thermal Science and Engineering Progress*, [SCIE, Cite Score: 7.1, Q1](#), Vol.25 (2021). <https://doi.org/10.1016/j.tsep.2021.101018>.
- [8] Abdulla Al-Mamun, S.M. Arifuzzaman, Sk. Reza-E-Rabbi, **Saiful Islam**, Md. Shakhaoath Khan, "Numerical simulation of periodic MHD Casson nanofluid flow through porous stretching sheet". *SN Applied Science*, [ESCI, IF: 2.8, Q2](#), Vol. 03, 271 (2021). <https://doi.org/10.1007/s42452-021-04140-3>.
- [9] Mohammad Farhad Bulbul, **Saiful Islam**, Zannatul Azme, Preksha Pareek, Md. Humaun Kabir, Hazrat Ali, "Enhancing the performance of 3D auto-correlation gradient features in depth action classification". *International Journal of Multimedia Information Retrieval*, [SCIE, IF: 5.6, Q1](#), Vol. 11, pp. 61-76 (2022). <https://doi.org/10.1007/s13735-021-00226-1>.
- [10] Mohammad Farhad Bulbul, **Saiful Islam**, Yatong Zhou, Hazrat Ali, "Improving Human Action Recognition Using Hierarchical Features And Multiple Classifier Ensembles". *Computer Journal*, [SCIE, Oxford University Press, IF: 1.7, Q2](#), Vol. 64(11), pp. 1633-1655 (2021). <https://doi.org/10.1093/comjnl/bxz123>.

## Publications (continue...)

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### International Journals

[11] Farhad Bulbul, **Saiful Islam**, Hazrat Ali, "3D Human Action Analysis and Recognition through GLAC descriptor on 2D Motion and Static Posture Images". Multimedia Tools and Applications, **SCIE, IF: 3.6, Q1**, Vol. 78(15), pp. 21085–21111 (2019). <https://doi.org/10.1007/s11042-019-7365-2>.

[12] Muhammad Farhad Bulbul, **Saiful Islam**, Hazrat Ali, "Human Action Recognition Using MHI and SHI Based GLAC Features and Collaborative Representation Classifier". Journal of Intelligent and Fuzzy Systems, **SCI, IF: 2.0, Q2**, Vol. 36(4), pp. 3385-3401 (2019). <https://doi.org/10.3233/JIFS-181136>.

[13] **Saiful Islam**, Mohammad Farhad Bulbul, Md. Sirajul Islam, "A comparative study on human action recognition using multiple skeletal features and multiclass support vector machine". Machine Learning and Applications: An International Journal, Vol. 05, No.1/2, 10.5121/MLAIJ.2018.5201.

[14] Sajib Mandal, Md. Sirajul Islam, Md. Haider Ali Biswas, **Saiful Islam**, "Modeling with strategies to control the adverse effects of global warming on marine ecosystems", Modeling Earth Systems and Environment, **ESCI, IF: 3.0, Q1**, Vol. 7(3) (2021). <https://doi.org/10.1007/s40808-021-01286-2>.

[15] Md Habibul Bashara, S.M. Yiasir Arafat, S.M. Rayhanul Islam, **Saiful Islam**, M.M.Rahman, "Extraction of some optical solutions to the (2+1)-dimensional Kundu-Mukherjee-Naskar equation by two efficient approaches", Partial Differential Equations in Applied Mathematics, **SCOPUS, Cite Score: 3.4, Q2**, Vol. 06 (2022). <https://doi.org/10.1016/j.padiff.2022.100404>.

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### Technical Skills

#### Programming Languages and Research Tools

- Python, FORTRAN, MATLAB, C/C++ Programming
- COMSOL Multiphysics, Tecplot 360, Origin, LaTeX

#### Linguistic Proficiency

- English (Fluent Working Proficiency)
- Bangla (Native Language)

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### ADDITIONAL QUALIFICATIONS

#### Achievement

- 1st class first position in M.Sc.
- 1st class 3rd position in B.Sc.

#### Awards

- Superior Performance in National Undergraduate Mathematics Olympiad 2014, 6th Position, Bangladesh Mathematical Society- A. F. Mujibur Rahman Foundation, Participated in the Final Round, 2014.
- Faculty Training Program, Organized by, Institutional Quality Assurance Cell (IQAC), Stamford University Bangladesh, Batch: FT-N5, 2019.

#### Extra-curricular Activities

- Captain of the departmental Cricket team and a member of the departmental Football team, BSMRSTU.

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### References

#### Dr. Md. Mustafizur Rahman

- Professor, Department of Mathematics  
Bangladesh University of Engineering and Technology, Dhaka, Bangladesh  
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Contact Number: +8801552556549

#### Dr. Dipankar Kumar

- Associate Professor and Chairman, Department of Mathematics  
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Contact Number: +8801722 285442