CURRICULUM VITAE:

PERSONAL INFORMATION:

Name: Akash Biswas.

Date of Birth: 2nd January, 1995.

Father's Name: Sudarsan Biswas.

Mother's Name: Arati Biswas.

Nationality: Indian.

CONTACT:

Address: 235, A. G. Colony, P.O.- Manicktala, P.S.- Ashokenagar, Dist.- North 24 Parganas, State - West Bengal, PIN-743263.

E-Mail: akash1995.biswas@gmail.com

Phone No: 9477274671.

ACADEMICS:

Examination	School/College	Board/University of affiliation	Percentage	Year of Passing
Secondary	Prafullanagar Vidyamandir (H.S.)	W.B.B.S.E	82.375%	2010
Higher Secondary	Prafullanagar Vidyamandir (H.S.)	W.B.C.H.S.E.	83.8%	2012
B.Sc.(Mathematics)	Bangabasi College	University of Calcutta	75.875%	2015
M.Sc.(Applied Mathematics)	UCSTA (Rajabazar Science College)	University of Calcutta	88.2%	2017

Specialization during M.Sc.: Dynamical Systems.

Area of research: Nonlinear Waves, Integrable PDEs, Applied PDEs.

Scholarships availed: INSPIRE Scholarship by DST, Govt. of India (2012-2017).

Examinations qualified: NET (UGC JRF, Dec-2016), WBSET (2017), GATE (2018).

Current Position: Assistant Professor Grade-1 (Date of joining 28-1-2020), Department of Mathematics, Katwa College.

Previous Positions:

- Junior Research Fellow (21-9-2017-20-9-2019), Department of Applied Mathematics, University of Calcutta.
- Senior Research Fellow (21-9-2019-27-1-2020), Department of Applied Mathematics, University of Calcutta.

Languages known: Bengali (Mother Language), English, Hindi.

Programming languages known: C.

Software using knowledge: MATLAB, LATEX.

Master's Project:

- Title of dissertation: Chaotic attractors of piecewise linear and non linear maps: existence & cyclicity.
- Supervisor: Dr. Swarup Poria.

Research Work:

- Title of thesis: Integrability of some non-linear systems in plasma models.
- Supervisor: Professor Samiran Ghosh.

Publications:

- Nonlinear structure formation of electron acoustic waves in plasmas by **Akash Biswas**, Samiran Ghosh and Nikhil Chakrabarti, Physica Scripta **95**, 105603 (2020).
- Three dimensional wave group dynamics of ion acoustic waves in electron-positron-ion plasmas in presence of an external uniform magnetic field by **Akash Biswas**, Debkumar Chakraborty, Sourav Pramanik and Samiran Ghosh, Physics of Plasmas **28**, 062105 (2021).
- Nonlinear electrostatic ion cyclotron wave collapse and formation of wave packet in presence of trapped electrons, **Akash Biswas**, Debkumar Chakraborty and Samiran Ghosh, Physical Review E, 005200 (2022).
- Excitation of ion acoustic collisionless shock by a moving obstacle, Debkumar Chakraborty, **Akash Biswas** and Samiran Ghosh, Physics of Plasmas, **29**, 122304 (2022).
- Three dimensional nonlinear ion acoustic waves near critical density in magnetized negative ion plasmas, **Akash Biswas**, Debkumar Chakraborty and Samiran Ghosh, Waves in Random and Complex Media, (2024).

Courses taught in UG Level:

- Ordinary and Partial Differential Equations
- Numerical Analysis and Programming in C
- Advanced Mechanics
- Multivariate Calculus

Faculty development trainings attended:

- 7th Online Faculty Induction Programme, organized by Pondicherry University, 1st-30th June, 2022.
- Refresher Course on Mathematical and Computational Techniques in Real World Problems, Organized by Guru Ghasidas Viswavidyalaya, 4th-16th December, 2023.

Workshops attended:

- Three days lecture workshop on Hyperbolic Partial Differential Equations and Conservation Laws (HPDECL) organised by Department of Applied Mathematics, University of Calcutta. 10th -12th August, 2016.
- Enrichment Programme for Students and Teachers (1st Phase) on Linear Algebra, Analysis and Differential Equations organised by Garhbeta College, 8th – 9th September, 2020.
- Implementation of Numerical Methods using MATLAB, organized by Department of Mathematics, IIT Indore, 3rd – 8th January, 2022.

Conferences/Webinar/Workshops attended with contributory talks:

- Recent Advances in Applied Mathematics: Theory and Computation, organised by Department of Applied Mathematics, University of Calcutta, 27th – 29th March, 2021. (Title of contributory Talk: Nonlinear structure formation of electron acoustic waves in plasmas.)
- International Conference on Applied Mathematics in Science and Engineering (AMSE-2022), organized by Siksha 'O' Anusandhan (Deemed to be University), 24th -26th March, 2022. (Title of contributory Talk: Wave group dynamics of ion acoustic wave in magnetized electron positron ion plasma: Through analytical exposure.)
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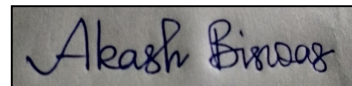Conferences/Webinar/Workshops attended (Without Presentation):

- National Seminar on Nonlinear Processes in Physical and Biological Systems organised by Centre for Plasma Studies, Jadavpur University & Advanced Centre for Nonlinear and Complex Phenomena, Kolkata. 16th March, 2018.
- National Symposium on Recent Trends in Applied Mathematics (RTAM18) organised by Department of Applied Mathematics, University of Calcutta. 26th -28th March, 2018.
- International Conference on Complex Dynamical Networks (IC^{2}DN2018) organised by Physics and Applied Math Unit (PAMU), Indian Statistical Institute. 4th -5th October, 2018.
- National Symposium on Recent Trends in Applied Mathematics (RTAM19) organised by Department of Applied Mathematics, University of Calcutta. 14th -16th March, 2019.
- 3rd M. R. Gupta Memorial National Seminar organised by Centre for Plasma Studies, Department of Mathematics, Jadavpur University, 5th August, 2019.
- National Webinar in Mathematics and its Application organized by Rampurhat College, 21st September, 2021.

Correspondence:

1. Prof. Samiran Ghosh,
   Department of Applied Mathematics,
   University of Calcutta
   92, APC Road, Kolkata-700009

2. Dr. Swarup Poria,
   Department of Applied Mathematics,
   University of Calcutta
   92, APC Road, Kolkata-700009

Declaration: I hereby, declare that all the above information is true to the best of my knowledge and belief.

(AKASH BISWAS)