Curriculum Vitae

Santanu Pan+91- 9903083483 (Mobile)
Assistant Professorpansantanu22@gmail.com
Department of Physics**Date of Birth**: 14/10/1991
Netaji Nagar Day College**Nationality**: Indian
170/436, Regent Estate**Language Proficiency**: Bengali, English, Hindi
Kolkata- 700092

Correspondence Address: Pranabananda Pally, Kenduadihi, Bankura, 722102

PositionsHeld:

Designation	Institute/University	Period
Assistant Professor	Netaji Nagar Day College, Kolkata	05/05/2017- Till Date
Senior Research Fellow	S N Bose National Centre for Basic Sciences, Kolkata	01/08/2016- 04/05/2017
Junior Research Fellow	Do	01/08/2014-31/07/2016

Educational Details:

Degree	Board/Institute/University	Period	Subject	Class/Division
PhD (Ongoing)	S N Bose National Centre for Basic Sciences	2014- Till date	Physics	First (Coursework)
CSIR-NET	Council of Scientific and Industrial Research	2014	Physical Sciences	
M.Sc	IIT Delhi	2012-14	Physics	First
B.Sc	University of Burdwan	2009-12	Physics	First
Higher Secondary	WBCHSE	2007-09		First
Madhyamik	WBBSE	2007		First

Achievements and Awards:

- Merit-Cum-Means Scholarship, Govt. of West Bengal, 2007
- National Scholarship for Higher Education in College and Universities, 2009, Govt. of India
- INSPIRE Scholar, DST, Govt. of India, 2009
- Joint CSIR-UGC Junior Research Fellowship and Eligibility for Lectureship (NET), 2014

- INSPIRE Fellow, DST, Govt. of India, 2014

Computational Skills:

- Programming in FORTRAN
- Micromagnetic simulation using OOMMF and LLG Micromagnetic simulator

Teaching Experience:

UG Level**:** 1 Year (Date of Joining – 05/05/2017)

Subjects Taught in College:

Year 2017:

(a) Waves and Oscillations
(b) Optics
(c) Electrodynamics and Electromagnetic Theory
(d) Atomic and Nuclear Physics

Research Experience:

At S N Bose National Centre for Basic Sciences:
Worked for Three Years as a Doctoral Research Fellow in the Department of Condensed Matter Physics and Material Sciences

At Indian Institute of Technology (IIT) Delhi:
Worked as a Post-graduate Project Scholar for One Year in Department of Physics

Research Interest:

- Nanomagnetism and Spintronics
- Time-resolved magnetization dynamics
- Ultrafast demagnetization
- Magnetic Gilbert damping in half-metallic and heavy metal-bilayer system
- Magnonic band structure
- Micromagnetic simulation

Member of Professional Bodies:

- IEEE Magnetic Society
- Magnetic Society of India (MSI)

International Visits:

Country Visited	Period of Visit	Purpose
Poland	06th-21st May, 2016	Research
Germany and Poland	10th-25th May, 2017	Research

List of Publications(in reverse chronological order):

Peer-reviewed Journal Articles:

[1] S. Sinha, **S. Pan**, S. Choudhury, J. Sinha, A. Barman, "Large Modulation of Gilbert Damping Coefficient by VaryingUnderlayer of CoFeB Thin Film from Few-Layer-Graphene to Graphite." ***J. Phys. Chem. C***121, 17442 (2017).

[2] **S. Pan**, J. W. Kłos, S. Miesczak, A. Barman, M. Krawczyk, "Spin Waves in Periodic Antidot Waveguide of Complex Base." ***J. Phys. D: Appl. Phys.*** 50, 275003 (2017).

[3] **S. Pan**, T. Seki, K. Takanashi, A. Barman, Role of Cr Buffer Layer in the Thickness-dependent Ultrafast Magnetization Dynamics of $Co_2Fe_{0.4}Mn_{0.6}Si$ Heusler Alloy Thin Films." ***Phys. Rev. Appl.*** 7, 064012 (2017).

[4] **S. Pan**, S. Mondal, T. Seki, K. Takanashi, A. Barman, Influence of Thickness-dependent Structural Evolution on Ultrafast Magnetization Dynamics in $Co_2Fe_{0.4}Mn_{0.6}Si$ Heusler Alloy Thin Films." ***Phys. Rev. B*** 94, 184417 (2016).

[5] A. K. Chaurasiya, C. Banerjee, **S. Pan**, S. Sahoo, S. Choudhury, J. Sinha, A. Barman, "Direct Observation of Interfacial Dzyaloshinskii-Moriya Interaction from Asymmetric Spin-wave Propagation in W/CoFeB/SiO_2 Heterostructures Down to Sub-nanometer CoFeB Thickness." ***Scientific Reports*** 6, 32592 (2016).

[6] R. K. Upadhyay, **S. Pan**, A. Barman, J. A. McLaughlin, S.S. Roy, "Oil swollen surfactant gel based synthesis of metal oxides nanoparticles: An attractive alternative for the conventional sol gel synthesis." ***Ceramics International***42(10), 12119-12128 (2016).

Conferences/Seminar Attended/Participated*:*

	International (Number)	National (Number)	State (Number)
Paper Presented	11	4	0
Participated	6	4	0