

# Dr. Sanjib Kr Pal

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## Permanent Address

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## Education

- 2013-2019 Doctor of Philosophy** (Ph.D. in Computational Fluid Dynamics)  
Indian Institute of Technology Kharagpur, India  
**Thesis Title: “Wall Modulation Effects on Electroosmosis and Forced/Mixed Convection of Nanofluids: A Numerical Study”**  
Advisor: **Prof. Somnath Bhattacharyya**
- 2010-2012 Masters of Science** (M. Sc. In Applied Mathematics)  
University College of Science, Technology & Agriculture, University of Calcutta.
- 2007-2010 Bachelor of Science** (Honours in Mathematics),  
Krishnagar Govt. College,  
University of Kalyani, Kalyani, India.
- 2005-2007 Higher Secondary Education,**  
Dattapulia Union Academy (H.S.) (under W.B.C.H.S.E.)
- 2003-2005 Secondary Education,**  
Dattapulia Union Academy (H.S.) (under W.B.B.S.E.)

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## Research Experience

- 2015-2019 Senior Research Fellow,** Indian Institute of Technology Kharagpur,  
Kharagpur-721 302  
India
- 2013-2015 Junior Research Fellow,** Indian Institute of Technology Kharagpur,  
Kharagpur-721 302  
India

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## Specialization

**Computational Fluid Dynamics**  
**Fluid Dynamics**

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## Research Interests

Electroosmotic Flows in Micro/ Nano Channels  
Heat Transfer  
Non-Newtonian Fluid Flows in Micro/ Nano Channels  
Radial Basis Function  
Thin Film Flow

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## Computational Proficiency

- **Operating Systems:** Windows, Linux
- **Programming Language:** Fortran, MatLab
- **Typing Software:** LaTeX

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## Academic Achievements

- **Qualified CSIR-JRF 2015.**
- **Qualified GATE 2013.**

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## Publications Appeared in Refereed Journals

(1) S. Bhattacharyya, **S. K. Pal**, Enhanced electroosmotic flow in a nano-channel patterned with curved hydrophobic strips, **Applied Mathematical Modelling** (Elsevier), 54, 567-579, 2018.

DOI:<https://doi.org/10.1016/j.apm.2017.10.013>

(2) **S. K. Pal**, S. Bhattacharyya, Enhanced heat transfer of Cu-water nanofluid in a channel with wall mounted blunt ribs, **Journal of Enhanced Heat Transfer** (Begell House), 25(1), 61-78, 2018.

DOI:[10.1615/JEnhHeatTransf.2018019982](https://doi.org/10.1615/JEnhHeatTransf.2018019982)

(3) **S. K. Pal**, S. Bhattacharyya, I. Pop, Effect of solid-to-fluid conductivity ratio on mixed convection and entropy generation of a nanofluid in a lid-driven enclosure with a thick wavy wall, **International Journal of Heat and Mass Transfer** (Elsevier), 127, 885-900, 2018.

DOI:<https://doi.org/10.1016/j.ijheatmasstransfer.2018.06.078>

(4) **S. K. Pal**, S. Bhattacharyya, I. Pop, A numerical study on non-homogeneous model for the conjugate-mixed convection of a Cu-water nanofluid in an enclosure with thick wavy wall, **Applied Mathematics and Computation** (Elsevier), 356, 219-234, 2019.

DOI:<https://doi.org/10.1016/j.amc.2019.03.008>

(5) S. Bhattacharyya, **S. K. Pal**, I. Pop, Impact of nanoparticles migration on mixed convection and entropy generation of a  $Al_2O_3$ -nanofluid inside an inclined enclosure with wavy side wall, **Journal of Thermal Analysis and Calorimetry** (Springer), 2019.

DOI:[10.1007/s10973-019-08345-y](https://doi.org/10.1007/s10973-019-08345-y)

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## Publication in International Conferences

(1) **S. K. Pal**, S. Bhattacharyya, Effect of Upper and Lower Moving Wall on Mixed Convection of Cu-Water Nanofluid in a Square Enclosure with Non-uniform Heating, In International Conference on Mathematics and Computing (pp. 197-208), **Springer**, Singapore, 2018, January.

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### Post Ph.D. Experience

- **Research Associate, Department of Mathematics, Indian Institute of Technology Madras, Chennai.**  
From 2<sup>nd</sup> July 2019 to 6<sup>th</sup> March 2020.

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### Teaching Experience

- **Assistant Professor, Department of Mathematics, Kazi Nazrul University, Asansol.**  
From 11<sup>th</sup> March 2020 (ongoing).
- **Faculty (Contractual), Department of Mathematics, University of Burdwan, Burdwan.**  
From 11<sup>th</sup> March 2013 to 30<sup>th</sup> May 2013.

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### Personal Information

**Date of Birth:** 23/08/1988

**Nationality:** Indian

**Gender:** Male

**Languages:** Bengali (Mother tongue), English

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### Declaration

I confirm that all the above stated particulars in this CV are true to the best of my knowledge and that I can provide documentary evidence to verify all the given information.

**Dr. Sanjib Kr Pal**