



Sandra Chulliparambil Shaju

Personal Information

Communication : Mülheimer Straße 133, Duisburg, 47058, Germany
Address
Date of Birth : 10 November 1999
Nationality : India
Email : sandra.chulliparambil-shaju@uni-due.de

Education

2022-Present **Ph.D.**, *University of Duisburg-Essen, Germany*
Supervisor: Prof. Dr. Karin Everschor-Sitte

2020-2022 **M.Sc. Physics**, *Cochin University of Science and Technology, Cochin, India*,
CGPA : 9.2/10
Master Thesis: *Non-DMI stabilization of skyrmions in NiMnGa nanocaps - Theoretical studies on the non-DMI stabilization of skyrmions in nanocaps of NiMnGa by micromagnetic simulations, under the guidance of Dr. Senoy Thomas, Assistant Professor, Department of Physics, Cochin University of Science and Technology, Cochin, India.*

Core Subjects:

- Quantum Mechanics
- Classical Mechanics
- Electrodynamics
- Mathematical Physics
- Advanced Solid State Physics
- Statistical Mechanics
- Advanced Electronics
- Nuclear and Particle Physics
- Atomic and Molecular Spectroscopy

Elective Subjects:

- Advanced Magnetism and Magnetic Materials
- Advanced Raman Spectroscopy
- Solar Photovoltaic Technology

2017-2020 **B.Sc. Physics**, *St. Thomas College (Autonomous), Thrissur, Kerala, India,*
(Calicut University)
CGPA : 5.92/6

Complementary Subjects:

- Mathematics
- Chemistry

2015-2017 **Higher Secondary School**, *Government Higher Secondary School, Nandikkara, Kerala, India,* (Higher Secondary Board of Education, Kerala, India)
Grade : A+ (90% and above)

Subjects:

- Physics
- Chemistry
- Mathematics
- Computer Science

2015 **Secondary School**, *St. Mary's High School, Chengaloor, Kerala, India,* (Board of Education, Kerala, India)
Grade : A+ (90% and above)

Academic Achievements

- **INSPIRE Scholarship**, A scholarship constituted by Department of Science and Technology (DST), Government of India, (Awarded to the students who score aggregate marks within top 1% in their Higher Secondary School examination, to pursue courses in Natural and Basic Sciences at the B.Sc. and M.Sc. level.)
- **Sanskrit Scholarship** by Government of Kerala, (Awarded to 10th grade students who secure more than 90% in an examination conducted at the state level.)

Languages

- **English:** Fluent to read, write and speak
- **Hindi:** Fluent to read and write, Intermediate to speak
- **Malayalam:** Mother Tongue

Computer Skills

Windows	● ● ● ● ●
Nmag	● ● ● ● ○
Netgen	● ● ● ● ○
LATEX	● ● ● ● ○
MATLAB	● ● ● ● ○
OriginLab Origin	● ● ● ● ○
Linux	● ● ● ● ○
Paraview	● ● ● ● ○
Python	● ● ● ● ○
macOS	● ● ● ○ ○
MuMax	● ● ● ○ ○

Research Interests

- Skyrmions
- Hopfions
- Magnetic spin structures
- Micromagnetic simulations
- Magnetic materials