

# SACHIN NAMBIAR

## Curriculum Vitae

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Date of Birth : 18 May 1995

## EDUCATION

2020-present



### Ph.D. in Chemistry

Franklin College of Arts and Sciences  
The University of Georgia, Athens, GA, USA

2014–2019



### Integrated BSc. - MSc. in Chemistry

National Institute of Technology Rourkela, Odisha, India  
CGPA: BSc.: 7.73/10 (8.25 in Major), MSc.: 7.93/10

GRE : 314 Verbal Reasoning: 154 | Quantitative Reasoning: 160 | Analytical Writing: 4.0  
TOEFL : 110 Reading: 27 | Speaking: 29 | Listening: 29 | Writing: 25

## ASSOCIATED EXPERIENCE

Publications

- “Designing Aromatic Heterocyclic Superacids in Brønsted and Lewis Perspectives” - R. Parida, S. R. Nambiar, G. N. Reddy and Dr. S. Giri; *Phys. Chem. Chem. Phys.* 2020. DOI: 10.1039/C9CP06054E
- “Can Superalkalis and Superhalogens Increase the Efficacy of Redox Reactions?” - S. R. Nambiar, G. Jana, Dr. P. K. Chattaraj; *Chem. Phys. Lett.* 2020. DOI: 10.1016/J.CPLETT.2020.138131
- “Zintl Lewis Superacids” - R. Inostroza-Rivera, R. Parida, S. R. Nambiar, S. Giri; *J. Phys. Chem. A.* 2020. ACCEPTED MANUSCRIPT

PG Dissertation

“Analysis of Double Proton Transfer Reactions in the Light of Conceptual Density Functional Theory”

under the guidance of *Prof. Santanab Giri* and *Prof. Madhurima Jana*, Computational Chemistry and Molecular Simulation Laboratory, NIT Rourkela.

Summer 2018

“Superhalogen and Superalkali Supported Redox Reactions”

Internship under the guidance of *Prof. Pratim Kumar Chattaraj*, Indian Institute of Technology Kharagpur, West Bengal, India.

Institute Projects

“Preparation of Gas Sensor Module to Detect Leakage of Flammable Gases or Smoke using an MQ2 sensor and Arduino UI” and

“Preparation and Characterization of CdS and ZnS Nanomaterials to Explore Semiconducting, Photocatalytic and Thermoelectric Behaviour”  
Both projects for the fulfilment of UG Course, ‘Product Development Laboratory’.

Summer 2016 | **“Synthesis and Characterization of CuAgSe Nanoparticles and Examination of its Characteristic Seebeck Coefficient and Figure of Merit to Optimize Thermoelectric Behaviour at Room Temperature”**  
*Internship at Institute of Physics Bhubaneswar, Odisha, India*

## TEACHING EXPERIENCE

Spring 2018 | **UG Chemistry Tutor for Remedial Classes** organised by **Student Counselling Programme**, National Institute of Technology Rourkela, Odisha, India.

2018–2019 | **Online Video Tutoring for Intermediate Chemistry** (in regional language - Odia) as part of an initiative by **Lotus Technologies**, Rourkela, India.

## TECHNICAL SKILLS

Programming | Gaussian, GAMESS, C, C++, FORTRAN, MATLAB, R, Python, HTML (*web development*)

Software | LATEX, Avogadro, GaussView, MS Office, ChemDraw, AutoCAD, Solidworks

## INSTITUTE POSITIONS

2018-19 | **Coordinator of Student Counselling Programme**, the official student mentorship programme of the institute. Responsibilities included overseeing the mentor-mentee interaction, conducting remedial classes for academically weak students and bringing issues faced by the students to the notice of the institute administration.

2018-19 | **Mentor, Soft Skill Development Initiative** by **Training and Placement Committee** which involved grooming students for the placement season and improving their soft skills such as speaking, group discussion and conduct during interviews.

2017-18 | **President of HeartBeats**, the official music band of the institute. Responsibilities included overseeing purchases of musical instruments, leading a contingent of students to different institute fests for participation, and convening the annual musical evening, “Maktub” with approximately 1000 students attending every year.

## OTHER CERTIFICATIONS

2012 | **Bachelor of Music**, All India Music University Board. All India Rank: 2

## LANGUAGES KNOWN

- Fluent: English, Malayalam, Hindi, Odia
- Basic: Sanskrit