

Anubhav Goswami

University of California, Los Angeles

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EDUCATION

University of California, Los Angeles

Doctor of Philosophy (Ph. D.)

Chemistry and Biochemistry

GPA: 4.0/4.0

Advisor: Prof. Anastassia Alexandrova

Los Angeles, United States

2023 – present

Indian Institute of Science

Bachelor of Science (Research)

Major in Chemistry, Minor in Physics

CGPA: 9.6/10.0

Bengaluru, India

2019 – 2023

Garden High School

Indian School Certificate (ISC)

Aggregate: 99.00%

Kolkata, India

2018 – 2019

Garden High School

Indian Certificate of School Education (ICSE)

Aggregate: 97.00%

Kolkata, India

2016 – 2017

RESEARCH EXPERIENCE

University of California, Los Angeles

Graduate Student Researcher

Advisor: Prof. Anastassia Alexandrova

Los Angeles, United States

September 2023 – present

TBD

Indian Institute of Science

Bachelor's Thesis

Advisor: Dr. Garima Jindal

Bengaluru, India

August 2022 – May 2023

A combined computational and experimental mechanistic investigation of the unusual Rh(II)-catalyzed allylic alkylation

Technische Universität Berlin

DAAD-WISE Research Internship

Advisor: Prof. Dr. Martin Oestreich

Berlin, Germany

May 2022 – July 2022

Attempted to develop a novel method for the transition metal-free catalytic Friedel Craft's C–H borylation of electron deficient arenes using boron- and silicon-based catalysts

Indian Institute of Science

Research Internship

Advisor: Prof. Partha Sarathi Mukherjee

Bengaluru, India

January 2021 – April 2022

Received training in synthesis, purification, and characterization of various ligands and supramolecular complexes and in performing photophysical studies of these systems for application in singlet oxygen generation

Indian Institute of Science

Research Internship

Advisor: Dr. Garima Jindal

Bengaluru, India

June 2021 – September 2021

Computationally investigated the reaction mechanism of an organocatalytic enantioselective reaction to determine the potential pathways (simple kinetic resolution, dynamic kinetic resolution, and dynamic kinetic asymmetric transformation) for the reaction

Indian Institute of Science

Reading Project

Advisor: Prof. Partha Sarathi Mukherjee

Bengaluru, India

May 2020 – July 2020

Undertook a reading project in the field of Supramolecular Chemistry – studied self-assembled molecular architectures, catalysis within confined nanopspaces, and light harvesting systems

PUBLICATIONS

- R. Das, S. Barik, A. Kunhiraman, [A. Goswami](#), A. Mondal, M. Dey, A.T. Biju, *ACS Catal.* **2024** (in revision).
- [A. Goswami](#), R. Gogoi, A. Panda, A. C. Sheth, G. Jindal, ChemRxiv (2023). doi: 10.26434/chemrxiv-2023-ksf8p-v2
- A. Tyagi, [A. Goswami](#), G. Jindal, ChemRxiv (2023). doi: 10.26434/chemrxiv-2023-pq5g2
- M. S. Harariya, R. Gogoi, [A. Goswami](#), A. K. Sharma, G. Jindal, *Chem. Eur. J.* **2023**, 29. ee2023019.

ACADEMIC ACHIEVEMENTS

Rajarshi Bhattacharya Memorial Medal

2023

Awarded the Gold medal by the Indian Institute of Science for the best performance in Four-Year Bachelor of Science (Research) in Chemistry

DAAD-WISE Scholarship

2022

Awarded by the DAAD (German Academic Exchange Service) for undertaking a research internship in Germany

Kishore Vaigyanik Protsahan Yojana

2019

Fellowship and Scholarship awarded by the Dept. of Science & Technology, Govt. of India

Award of Academic Excellence

2019

Awarded by the Chief Minister of West Bengal and Ministry of Education, West Bengal for securing the **5th position** in the Indian School Certificate Examination (CISCE)

JBNSTS Junior Scholarship

2017

Awarded by JBNSTS (Jagadish Bose National Science Talent Search), an autonomous organization under the Ministry of Education, West Bengal

LEADERSHIP AND OUTREACH

Coordinator, Chemenigma

2021

Chemenigma is a national competition in Chemistry organized as a part of Pravega, the Undergraduate Science and Cultural Fest at IISc. Led a team of 20 students to plan and host this event including designing problems, managing publicity and finances. The event received overwhelming response from students across India

Coordinator, Elementary

2020

Elementary Quiz

Organized a 3 week-long Chemistry quiz in which over 200 high school and undergraduate students participated

Elementary Lecture Series

Organized a webinar series to introduce high school and undergraduate students to new and upcoming fields in Chemistry - comprised 7 lectures where eminent chemists around the world spoke about their current research.

Volunteer, IISc Open Day

2020

Interacted with general public of all ages and illustrated common scientific principles and applications in the field of Chemistry and Biology through video presentations, games, and other activities

TECHNICAL SKILLS

- Computational chemistry software: Gaussian, VASP,
- Python, C, MATLAB, Java, BASH Scripting
- Organic and Inorganic Synthesis using Schlenk and glovebox techniques, including purification using column chromatography and use of chiral HPLC
- Characterization using 1D and 2D NMR (^1H , ^{13}C , Boron, and Silicon) spectroscopy, GC-MS, ESI-MS, and UV-Vis and IR spectroscopy and photophysical studies using fluorescence and UV-Vis spectroscopy

EXTRA-CURRICULAR INTERESTS

- Playing Kho-Kho, a rural Indian sport; awarded the silver medal in Kho-Kho at Eclipse 2021, the undergraduate sports fest at IISc
- Passionate about debating; awarded the second position in the Frank Anthony Memorial All-India Inter-School Debate 2018 and organized debates at the high-school level

REFERENCES

Prof. Anastassia Alexandrova

Professor,
Chemistry and Material Science
University of California,
Los Angeles - 90024
E-mail: ana@chem.ucla.edu

Dr. Garima Jindal

Assistant Professor,
Dept. of Organic Chemistry,
Indian Institute of Science,
Bengaluru – 560 012
E-mail: gjindal@iisc.ac.in