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Arizona State University
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Education: **Arizona State University**, Tempe, AZ (2021 – present)

Ph.D. candidate in Chemistry

Advisor: Gary F. Moore

Guru Nanak Dev University, Amritsar, India (July 2017 – May 2019)

M.Sc. (H.S) Chemistry (**2nd** Rank in the University)

Advisor: Dr. Vandana Bhalla

Guru Nanak Dev University, Amritsar, India (July 2014 – May 2017)

B.Sc. (H.S) Chemistry (**1st** Rank in the University, Gold Medalist)

Employment: **Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR),**

Bangalore, India (September 2019 – May 2020)

R&D Assistant

Advisor: Dr. Sarit S. Agasti

Internships: **Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR),**

Bangalore, India (May 2018 – July 2018)

Advisor: Dr. Sarit S. Agasti

Pune University, Pune, India (Summer Research fellowship Program by

Indian Academy of Science (May 2016 – July 2016)

Advisor: Dilip D. Dhavale

Fellowships and Awards:

- (4) Best Poster Award at 8th National Student Symposium on Chemistry (2019)
- (3) University Merit Scholarship by Guru Nanak Dev University
- (2) Qualified CSIR JRF NET (Eligibility test for Lectureship & PhD in India) in December 2017 and June 2018
- (1) SHE INSPIRE Scholarship by Department of Science and Technology, Govt. of India (2014-2019)

Journal Publications

- (3) Pahwa, M.; Sharma, M.; Meethal, S.K.; Agasti, S. S.* **Reversible Regulation of Esterase Activity via Host-Guest Molecular Recognition at the Nanoparticle Surface.** *Bull. Mater. Sci.* **2020**, 43, 320.
- (2) Singh, G.; Kaur, A.; Sharma, M.; Bhalla, V.; Singh, D.; Arora, S.; Kumar, M.* **Reversible Detection of Hypochlorite Using Deprotonation-Protonation Strategy: A Search for New Building Blocks.** *Mater. Adv.* **2020**, 1, 1347-1353.
- (1) Walia, P. K.; Sharma, M.; Kumar, M.; Bhalla, V.* **UV light Promoted 'Metal'/'Additive'-free Oxidation of Alcohols: Investigating the Role of Alcohols as Electron Donors.** *RSC Adv.* **2019**, 9, 36198-36203.

Poster Presentations

- (1) Sharma, M.; Gill, N. K.; Kumar, M.*; Bhalla, V.* Hemicyanine based fluorescent probe for selective sensing of hypochlorite. **8th National Symposium on Advances in Chemical Sciences** (2019).

Teaching Experience

- (1) Arizona State University, Tempe, Arizona
Graduate Teaching Assistant
 - i. CHM 114 General Chemistry Laboratory (Spring 2021)
 - ii. CHM 116 General Chemistry Laboratory (Summer 2021)