

Objective

As a dedicated organic chemist specializing in synthetic organic and natural product chemistry, I have developed extensive experience in natural product isolation during my master’s studies and in small molecule synthesis during my Ph.D. training. Currently in my fourth year in Dr. Jimmie D. Weaver’s lab, my research focuses on developing sustainable, visible light-driven methodologies for the synthesis of bioactive compounds. Through participation in the Institute for Future PUI Faculty, I aim to strengthen my teaching skills, gain insight into evidence-based pedagogy, and prepare for a future academic career that integrates impactful research with inclusive and engaging undergraduate education.

Professional Preparation

BS–MS Dual Degree (Chemistry), Punjab Agricultural University	2021
French Certificate, Punjab Agricultural University	2021
PhD in Chemistry, Oklahoma State University (Advisor: Dr. Jimmie D. Weaver)	Expected May 2027

Appointments and Professional Experience

Graduate Research Assistant, Oklahoma State University	2023 – Present
Graduate Teaching Assistant, Oklahoma State University	2022 – 2023
Staff Manager, AS Components, Ludhiana, India	2021 – 2022
Chemistry Tutor (Self-employed)	2019 – 2022
Graduate Research Assistant, Punjab Agricultural University	2019 – 2021

Publications

1. Hanumanthu, R., **Sharma, P.***, et al., *J. Am. Chem. Soc.*, 2025.

2. Kaur, A., et al., **Sharma, P.**, *Nat. Prod. Res.*, 2025.

3. Kaur, R., et al., **Sharma, P.**, *J. Biol. Act. Prod. Nat.*, 2024.

4. **Sharma, P.** et al., *Cogent Food Agric.*, 2024.

5. **Sharma, P.** & Kaur, R., *Nat. Prod. J.*, 2025.

6. **Sharma, P.** et al., *Discov. Plants*, 2025.

7. **Sharma, P.** et al., *Discov. Plants*, 2024.

8. **Sharma, P.**, *J. Pharmacogn. Phytochem.*, 2024.

9. **Sharma, P.** et al., *J. Med. Plants Stud.*, 2024.

10. **Sharma, P.**, *Eur. J. Med. Plants*, 2024.

11. **Sharma, P.** & Kaur, R., *Eur. J. Med. Plants*, 2024.

12. **Sharma, P.**, *J. Med. Plants Stud.*, 2024.

13. **Sharma, P.** & Kaur, R., *Eur. J. Med. Plants*, 2025.

14. Kaur, R., **Sharma, P.**, *Discov. Chem.*, 2025.

15. Kaur, N., **Sharma, P.**, Preprint, 2025.

Full list: Google Scholar

Academic and Professional Honors

Distinguished Graduate Fellowship in Chemistry, Oklahoma State University	2025
Merit Certificate for Highest CGPA in Chemistry, Punjab Agricultural University	2021
Poster Presentation Certificate of Participation	2019

Poster Presentations

GPCS Symposium, University of Oklahoma	Aug 2024
GPCS Symposium, Lawrence, Kansas	Sept 2023
ACS Southwest Regional Meeting, Waco, TX	Oct 2024
ACS Southwest Regional Meeting, Oklahoma City, OK	Nov 2023
Poster presented to Nobel Laureates, Punjab Agricultural University	Sept 2019
1st National Students' Conference on Spectroscopy (NCOS), GNDU Amritsar	Oct 2020

Professional Memberships

American Chemical Society	2023 – Present
Phi Lambda Upsilon Chemistry Honor Society	2023 – Present
Electrochemical Society (Social Media Officer)	2023 – Present

Courses Taught at OSU

CHEM 3013 — Survey of Organic Chemistry (TA)
CHEM 3012 — Organic Chemistry Laboratory

Licenses and Certifications

Programming for Everybody: Getting Started with Python (Coursera)	Nov 2020
Analytical Techniques in Molecules and Materials, SLIET	Jun 2020

Volunteered Services

Student Volunteer, National Service Scheme	2016 – 2019
Judge, Oklahoma State Science and Engineering Fair	Mar 2023
Volunteer, Grandparent University Event	Jun – Jul 2023
Member, Indian Student Association	Aug 2022 – Present
Contributor, Cancer Social Work	
Reviewer, Chemistry & Biodiversity Journal	2025 – Present