

KRISHNA BHATTARAI

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Personal Profile

A chemistry graduate with expertise in organic, inorganic, and physical chemistry is committed to conducting research in Organic synthesis, organometallic chemistry, materials science, and environmental sustainability to contribute to the community. Possess good communication skill, can work in a team, and maintain professional boundaries while building long-lasting relationships. Dedicated to lifelong learning, improving professional skills, and seeking opportunities to grow as a researcher.

Education

Ph.D.

Chemistry

University of Oklahoma, Norman (2025- Present)

Advisor: Dr. Yuanning Feng

M.S

Chemistry

Tribhuvan University, Kathmandu (2017-2019)

CGPA: 3.62 / 4.00

Thesis: Adsorptive removal of hexavalent Chromium from the aquatic environment by using chemically modified giant reed (*Arundo donax*) stem powder.

Advisor: Dr. Bhoj Raj Poudel

B.S

Chemistry

Tribhuvan University, Kathmandu (2013-2017)

Project: Amount of calcium present in cement of various industries available in Rupandehi district, Nepal

Research Experience

Jan 2020 – Sep 2020

Department of Chemistry, Tri-Chandra Multiple Campus
Central Department of Chemistry, Tribhuvan University

Role: Synthesis of adsorbents, Characterization, Batch experiments, Thermodynamics and kinetic studies, Data analysis and interpretation, and Paper writing.

Teaching Experience

August 2025 - present	Graduate Teaching Assistant University of Oklahoma, Norman, Oklahoma
Aug 2022 – Agust 2025	Chemistry instructor Shree Saraswati Secondary School, Bhaktapur, Nepal
Sep 2021 – Jun 2022	Lecturer of Chemistry Shree Ananda Secondary School, Sindupalchowk, Nepal

Relevant Skills

- Laboratory techniques
- Characterization techniques (XRD, FTIR, SEM, Zeta-Potential)
- Data analysis and interpretation
- Computer software (Origin, Crystal Maker, Chemdraw, SciFinder, MS Office, Adobe, etc.)
- Excellent oral and written communication
- Presentation

Achievements and Awards

- Secondary level teaching license
- Master research support grant-2021 (award no. MRS-77/78-S&T-33)
- Advanced photography training

Publications

- K. P. Bhattarai, B. D. Pant, R. Rai, R. L. Aryal, H. Paudyal, S. K. Gautam, K. N. Ghimire, M. R. Pokhrel, and B. R. Poudel, “Efficient Sequestration of Cr(VI) from Aqueous Solution Using Biosorbent Derived from *Arundo donax* Stem,” *Journal of Chemistry*, vol.2022 (2022); <https://doi.org/10.1155/2022/9926391>
- R. Rai, D. R. Karki, K. P. Bhattarai, B. Pahari, N. Shrestha, S. Adhikari, S. K. Gautam, and B. R. Poudel, “Recent Advances in Biomass-Based Waste Materials for the Removal of Chromium (VI) from Wastewater: A Review,” *Amrit Research Journal*, 2(01), 37–50 (2021); <https://doi.org/10.3126/arj.v2i01.40736>