Roshan Lamichhane

1120 S. Woodside Dr., Bloomington IN 47403

812-550-3787 ♦ [roshlami@indiana.edu](mailto:roshlami@indiana.edu)

**SUMMARY** Well motivated and service-driven; Innovative problem solver, and ability to independently lead own research in a goal-oriented team environment

**EDUCATION Indiana University,** Bloomington, Indiana, August 2014-present

PhD, Curriculum and Instruction in Science Education

Minor: Chemistry

**Indiana University**, Bloomington, Indiana, September 2014

Master of Science, Chemistry

Major: Material Chemistry

Minor: Organic Chemistry

GPA 3.1

● Berk Fellowship, 2010-2011

**University of Evansville**, Evansville, Indiana, 2009

Bachelor of Science

Major: Chemistry

Minor: Math

GPA 3.34

●Dean’s List, 2005-2008

●Full Tuition Overseas Scholarship, 2005-2009

**STUDY ABROAD** **University of Limerick**, Limerick, Ireland, September 2008-December 2008

GPA 3.92

**LAB SKILLS** Nuclear Magnetic Resonance (NMR) Infrared Spectroscopy (FTIR)

Differential Scanning Calorimetry (DSC) Absorption and Emission Spectroscopy

Liquid and Gas Chromatography Titration Techniques,

Mass Spectrometry (ESI, APCI, MALDI) Microwave assisted Synthesis

Solid Phase Synthesis

**COMPUTER** ●Proficient with: Word, Excel, Powerpoint.

**SKILLS**  ●Familiar with: Igor Pro, Chem-Bio Draw, Spartan, SPSS.

**RESEARCH** *Research Assistant*, Department of Chemistry,

**EXPERIENCE** Indiana University, Bloomington, Indiana (2011-present)

●Synthesized nanographite for its application as a thermoelectric material through solution chemistry

●Synthesized water soluble amphiphilic Rhodamine type dye for its application as a potential to image neuronal cells in brain

*Research Assistant*, Department of Chemistry,

University of Evansville, Evansville, Indiana, Summer 2008

●Research titled “Solid phase synthesis of Pyrimidine and its Derivatives”

**TEACHING** *Associate Instructor***,** School of Education**,**

**EXPERIENCE** Indiana University, Bloomington, IN, Fall 2014

●Taught an elementary methods course E328 to pre-service teachers

*Associate Instructor*, Department of Chemistry,

Indiana University, Bloomington, IN, 2010-2013

●Laboratory instructor for undergraduate general chemistry and advanced organic chemistry courses ranging from 10-24 students

●Associate Instructor for organic and physical chemistry lecture courses

*Supplemental Instructor*, Department of Chemistry,

University of Evansville, Evansville, IN, 2007-2009

●Helped undergraduate students with their coursework in general chemistry and introductory organic chemistry for 4 semesters

*Teacher*, Kathmandu International School, Kathmandu, Nepal, 2004

●Taught Math and Science to students of grades six, seven, and eight

**WORK** *Student Assistant***,** Office of International Admissions,

**EXPERIENCE** University of Evansville, Evansville, Indiana, 2006-2007

●Supported director of International Admissions, aided with the management of documents, and interacted with visitors and prospective students

**PROFESSIONAL**  *Instructor*, Saturday Science Quest for Kids,

**EXPERIENCE** Indiana University, Bloomington, Indiana, Fall 2014

●Responsibilities: Instruction & curriculum development for Grades 5-8

*Instructor*, Foundations in Science and Mathematics: Summer Program for

Middle and High School Students

Indiana University, Bloomington, Indiana, Summer 2015

●Responsibilities: Instruction & Curriculum development of a Chemistry Course for Grades 7-12

**WRITING SKILLS** An essay titled “My Village” was selected as a commentary for WNIN radio, Evansville, Indiana, a NPR (National Public Radio) affiliate, 2006.

**LANGUAGES** Fluent in 3 different languages: English, Hindi, and Nepali