

Ishwor Thapa

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Education

Doctor of Philosophy, Biomedical Informatics, University of Nebraska at Omaha, 2025.

Thesis: *Democratizing design and implementation of agent-based modeling in biomedicine*

Advisor: Dr. Dario Ghersi

Master of Science, Computer Science, University of Nebraska at Omaha, 2009.

Thesis: *Identifying and assessing the impact of refactoring by mining version repositories.*

Advisor: Dr. Harvey Siy

Bachelor of Engineering, Computer Engineering, Tribhuvan University, 2005.

Experience

Software Application Developer at Bioinformatics Core Facility

October 2009 - till date

School of Interdisciplinary Informatics, College of IS&T, University of Nebraska at Omaha, NE

– Delivered core-related services to bio-medical researchers at UNMC, Mayo Clinic, UMass and other institutions to analyze biomedical data in understanding molecular mechanisms in different biological phenomena.

– Worked together with BMI faculties in their research and grants activities and co-authored research papers.

– Assisted both graduate and undergraduate students in 'BMI' and 'BIOI' programs in their research/capstone projects and co-authored research papers.

– Engaged in recruitment/outreach activities which includes mentoring in high-school internship program and delivering training workshops for high school teachers organized by College of IS&T.

Research Collaborator

April 2025 - till date

Department of Urology, Mayo Clinic, Rochester, MN

– Work with Dr. Fabrice Lucien-Matteoni, an assistant professor at Mayo Clinic on developing tools and pipelines for analyzing high-throughput nanoflow cytometry.

– Customized bioinformatics pipelines for omics-analysis of extracellular vesicle cargo.

– Engage in grant writing and manuscript preparation and participated in international conferences on extracellular vesicles.

Graduate Assistant

January 2009 - May 2009

Department of Computer Science, University of Nebraska at Omaha, NE

– Research assistant for Dr. Harvey Siy to design and develop plan of study tool for graduate students.