

# 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 Gherzi

### **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.