

PARIBESH REGMI

Graduate Research Assistant — Rochester Institute of Technology
Email: pr8537@rit.edu

EDUCATION

Computing and Information Science

PhD Degree

Advisor: [Prof. Rui Li](#)

Rochester Institute of Technology

2021 - Present

Electronics and Communication Engineering

Bachelor's degree

Thesis: *Nepali Speech Recognition Using RNN-CTC Model*

IOE, Tribhuvan University

2014 - 2018

WORK EXPERIENCE

Lab of Use-Inspired Computational Intelligence (LUCI)

Graduate Research Assistant

2021 - Present

Rochester, New York

LogPoint

Solutions Engineer

2018 - 2021

Lalitpur, Nepal

- Troubleshoot system/software issues at the customer's end.

RESEARCH INTERESTS

Statistical Machine Learning, Bayesian Methods, Bayesian Model Selection in Deep Learning, Deep Graph Learning, Federated Learning

PUBLICATIONS

AdaVAE: Bayesian Structural Adaptation for Variational Autoencoders (accepted, NeurIPS 2023)

Paribesh Regmi; Rui Li

Thirty-Seventh Conference on Neural Information Processing Systems (NeurIPS), 2023

Predicting Biomedical Interactions with Probabilistic Model Selection for Graph Neural Networks

Kishan KC; Rui Li; Paribesh Regmi; Anne Haake

[arxiv.org](#)

Nepali Speech Recognition Using RNN-CTC Model

Paribesh Regmi; Arjun Dahal; Basanta Joshi

[International Journal of Computer Applications](#), 2019

CURRENT RESEARCH / PROJECTS

Bayesian model selection in deep learning

Adopting Bayesian model selection method to infer an optimal model structure in supervised/unsupervised deep learning, guided by the data.

Relaxing structural constraints in federated learning

Relax the structural constraints in federated learning tasks, allowing clients to have their own independent and personalized network structure.

Representation learning on graphs

Enhancing graph representations by inferring appropriate neighborhood scope for message aggregation in a graph neural network.

Leveraging deep learning in graphs for biomedical interaction prediction

Tailoring the existing graph learning models for biomedical datasets to boost their performance in predicting interactions between biomedical entities.

SKILLS

Programming	Machine learning and deep learning libraries: pytorch, scikit-learn, numpy. Visualization: matplotlib
Leadership	Former event manager at Nepalese Student Association, Rochester Institute of Technology (NSA-RIT)
Languages	Nepali, English (Speaking, Reading, Writing)

OTHER INTERESTS

Music: Love playing the piano and guitar

Sports: Soccer, Table tennis

Besides, I like socializing, hiking and travelling.