Kishan KC

Ph.D. Candidate, Rochester Institute of Technology

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RESEARCH INTERESTS

Graph Representation Learning, Graph Neural Networks, Heterogeneous Data Integration, Computational Biology

EDUCATION

August 2016	**Doctor of Philosophy, Computing and Information Sciences** Golisano College of Computing and Information Sciences Rochester Institute of Technology Advisors: Professor Anne Haake and Professor Rui Li
January 2011 October 2014	**Bachelor of Engineering, Computer Engineering** Institute of Engineering, Tribhuwan University, Lalitpur, Nepal Thesis: Agricultural Data Integration and Analysis

EXPERIENCE

August 2016	**Research Assistant**, Human-Centric Multi-Modal Modelling Lab, Rochester Institute of Technology Project: ABI Innovation - Novel Methodology for Leveraging Metabolic Simulation to Improve Regulatory Reconstruction Advisors: Professor Anne Haake and Professor Rui Li
May 2015 June 2016	**Data Engineer**, Research & Development, Verisk Information Technologies Project: Medical Intelligence
October 2014 April 2015	**Software Trainee**, Data Warehousing ETL Team, Yomari Inc. Pvt. Ltd. Project: Express EDW
May 2013 December 2013	**Research Intern**, Software Development, E & T Nepal Pvt. Ltd. Project: 3D CAD Viewer with HTML5 over SSL

HONORS AND CERTIFICATIONS

2018	**PyTorch Scholarship Challenge from Facebook**, Udacity
2018	**RIT Ph.D. Merit Scholarship**, Rochester Institute of Technology
2016	**Data Science Certification**, Coursera
2016	**The Verisk Way to Go Award**, Verisk Information Technologies
2016	**Team of the Quarter**, Verisk Information Technologies
2015	**Rookie of the Year**, Verisk Information Technologies
2015	**The College Fellowship Scholarship**, Institute of Engineering, Tribhuwan University
2015	**Full Fee Programme Wise Semester Topper Scholarship**, Institute of Engineering, Tribhuwan University
2015	**Full Fee Programme Wise Batch Topper Scholarship**, Institute of Engineering, Tribhuwan University

PUBLICATIONS

APBC	**KC, K.**, Li R., Cui F., Yu Q., and Haake A. R. (2019). GNE: A deep learning framework for gene network inference by aggregating biological information. The Asia Pacific Bioinformatics Conference (APBC 2019).
ECCB	**KC, K.**, Li R., Cui F., and Haake A. R. (2018). Learning topology-preserving embedding for gene interaction networks. The European Conference on Computational Biology (ECCB 2018 Poster Track).

Posters

2018 | **GNE: A deep learning framework for gene network inference by aggregating biological information**
AI@GCCIS: Golisano College Research & Innovation Showcase, Rochester Institute of Technology
Biological Data Science, Cold Spring Harbor Laboratory

2018 | **Learning topology-preserving embedding for gene interaction networks**
17th European Conference on Computational Biology (ECCB), Athens, Greece

2018 | **Gene Network Embedding**
New Deep Learning Techniques, IPAM, UCLA

2017 | **Reconstruction of Gene Regulatory Networks with Ensemble SVM**
AI@GCCIS: Golisano College Research & Innovation Showcase, Rochester Institute of Technology

Talks

2018 | **Introduction to Neural Networks**
Teaching Apprenticeship, Statistical Machine Learning, Rochester Institute of Technology

2018 | **Deep Learning on Graphs**
Guest talk, Deep Learning Seminar, Rochester Institute of Technology

Technical Skills

Deep Learning Libraries | TensorFlow , Keras, PyTorch
Programming Languages | Python, R, Java, C, C++, MATLAB
Databases & Query Languages | Oracle Database, MySQL, SQL, Pl/SQL
Web Development | HTML/5, CSS, JavaScript, PHP, Shiny, Java Spark framework
Systems | Amazon AWS EC2

Open Source Projects

Gene Network Embedding   github.com/kckishan/GNE
TensorFlow package for representation learning on gene interaction networks