

# Kishan KC

Ph.D. Candidate, Rochester Institute of Technology

@ kk3671@rit.edu

github.com/kckishan

+1 585 430 0261

kishankc.com.np

linkedin.com/in/kishankc

307 Robert Quigley Drive, Scottsville, NY 14546

## RESEARCH INTERESTS

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

## EDUCATION

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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 | **Bachelor of Engineering, Computer Engineering**  
October 2014 | Institute of Engineering, Tribhuvan University, Lalitpur, Nepal  
Thesis: Agricultural Data Integration and Analysis

## EXPERIENCE

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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 | **Data Engineer**, Research & Development, Verisk Information Technologies  
June 2016 | Project: Medical Intelligence

October 2014 | **Software Trainee**, Data Warehousing ETL Team, Yomari Inc. Pvt. Ltd.  
April 2015 | Project: Express EDW

May 2013 | **Research Intern**, Software Development, E & T Nepal Pvt. Ltd.  
December 2013 | Project: 3D CAD Viewer with HTML5 over SSL

## HONORS AND CERTIFICATIONS

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2016 | **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 Technology  
2015 | **Full Fee Programme Wise Semester Topper Scholarship**, Institute of Technology  
2015 | **Full Fee Programme Wise Batch Topper Scholarship**, Institute of Technology

## PUBLICATIONS

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- [1] **Kishan KC**, Rui Li, Feng Cui, Qi Yu, Anne Haake. GNE: A deep learning framework for gene network inference by aggregating biological information. *The Asia Pacific Bioinformatics Conference (APBC)*. 2019 (to appear).
- [2] Rui Li, **Kishan KC**, Feng Cui, Justin Domke, Anne Haake. Sparse Covariance Modeling in High Dimensions with Gaussian Processes. *Neural Information Processing Systems (NIPS)*. 2018.
- [3] **Kishan KC**, Rui Li, Feng Cui, Anne Haake. Learning topology-preserving embedding for gene interaction networks. *The European Conference on Computational Biology (ECCB) (Poster Track)*. 2018.

## POSTERS

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- GNE: A deep learning framework for gene network inference by aggregating biological information** 2018  
AI@GCCIS: Golisano College Research & Innovation Showcase, Rochester Institute of Technology
- Learning topology-preserving embedding for gene interaction networks** 2018  
17th European Conference on Computational Biology (ECCB), Athens, Greece
- Gene Network Embedding** 2018  
New Deep Learning Techniques, IPAM, UCLA
- Reconstruction of Gene Regulatory Networks with Ensemble SVM** 2017  
AI@GCCIS: Golisano College Research & Innovation Showcase, Rochester Institute of Technology

## TECHNICAL SKILLS

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

## OPEN SOURCE PROJECTS

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### Gene Network Embedding

TensorFlow package for representation learning on gene interaction networks

 [github.com/kckishan/GNE](https://github.com/kckishan/GNE)