

Kishan KC

Ph.D. Candidate, Rochester Institute of Technology

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307 Robert Quigley Drive, Scottsville, NY 14546

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, 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
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

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| 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 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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|------|---|
| 2018 | Kishan KC , Rui Li, Feng Cui, Qi Yu, Anne Haake. GNE: A deep learning framework for gene network inference by aggregating biological information. <i>The Asia Pacific Bioinformatics Conference (APBC)</i> . 2019 (to appear). |
| | Rui Li, Kishan KC , Feng Cui, Justin Domke, Anne Haake. Sparse Covariance Modeling in High Dimensions with Gaussian Processes. <i>Neural Information Processing Systems (NIPS)</i> . 2018. |

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 (to appear).

POSTERS

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	2018
Reconstruction of Gene Regulatory Networks with Ensemble SVM AI@GCCIS: Golisano College Research & Innovation Showcase, Rochester Institute of Technology	2017

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