

# Maulik Rajendra Kamdar

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## Education

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<b>Stanford University, California</b> <i>Doctor of Philosophy (Ph.D.)</i> Biomedical Informatics Training Program	2014–current
<b>Indian Institute of Technology (IIT), Kharagpur</b> <i>Bachelor of Technology (B.Tech. Honors) and Master of Technology (M.Tech.)</i> Biotechnology and Biochemical Engineering	2007–2012

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## Honours and Awards

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<b>Best Poster Award</b> ( <i>Graphics</i> ) - Stanford Biomedical Informatics Training Program Retreat	2016
<b>NIH/NLM Travel Award</b> - 21st Pacific Symposium on Biocomputing	2016
<b>Best Poster Award</b> ( <i>Graphics</i> ) - Stanford Biomedical Informatics Training Program Retreat	2015
<b>Best Paper Award</b> - 7th Conference on Semantics in Healthcare and Life Sciences	2014
<b>Semantic Web Challenge Award</b> ( <i>Big Data Prize</i> ) - 12th International Semantic Web Conference	2013
<b>Best Project Award</b> - 10th Summer School on Ontology Engineering and the Semantic Web	2013
<b>Best Poster Award</b> - 10th Summer School on Ontology Engineering and the Semantic Web	2013
<b>Google Summer of Code</b> ( <i>Pathway Summary Visualization</i> ) - Genome Informatics	2012
<b>Honourable Mention in Technology</b> - Indian Institute of Technology, Kharagpur	2012
<b>Best Outgoing Student</b> ( <i>Technology</i> ) - Meghnad Saha Hall of Residence, IIT Kharagpur	2012
<b>Google Summer of Code</b> ( <i>HTML5 Canvas Pathway Visualization</i> ) - Genome Informatics	2011
<b>Google Summer of Code</b> ( <i>HTML5 Support to Drupal 7</i> ) - Drupal	2010
<b>All India Rank 2737</b> ( <i>Top 1% of total applicants</i> ) - IIT Joint Entrance Examination	2007
<b>Xavierite Super Award</b> - St. Xavier's High School, Ahmedabad	2007

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## Selected Peer-reviewed Publications

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1. Maulik R. Kamdar and Mark A. Musen. **PhLeGrA: Graph Analytics in Pharmacology over the Web of Life Sciences Linked Open Data**. *26th World Wide Web Conference*, April 2017. (accepted - upcoming).
2. Maulik R. Kamdar, Tania Tudorache and Mark A. Musen. **A Systematic Analysis of Term Reuse and Term Overlap across Biomedical Ontologies**. *Semantic Web – Interoperability, Usability, Applicability (Linked Data and Ontology Reuse Special Issue)*.
3. Maulik R. Kamdar and Michelle J. Wu. **PRISM: A Data-driven Platform for Monitoring Mental Health**. *21st Pacific Symposium on Biocomputing*, January 2016.
4. Maulik R. Kamdar, Tania Tudorache and Mark A. Musen. **Investigating Term Reuse and Overlap in Biomedical Ontologies**. *6th International Conference on Biomedical Ontology*, July 2015
5. Maulik R. Kamdar and Michel Dumontier. **An Ebola Virus-centered Knowledge Base**. *Database: The Journal of Biological Databases and Curation*, April 2015.
6. Maulik R. Kamdar, Aftab Iqbal, Muhammad Saleem, Helena F. Deus and Stefan Decker. **GenomeSnip: Fragmenting the Genomic Wheel to augment discovery in cancer research**. *7th Conference on Semantics in Healthcare and Life Sciences*, February 2014. **BEST PAPER AWARD**.
7. Maulik R. Kamdar, Dimitris Zeginis, Ali Hasnain, Stefan Decker and Helena F. Deus. **ReVeaLD: A User-driven Domain-specific Interactive Search Platform for Biomedical Research**. *Journal of Biomedical Informatics*, February 2014.

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## Other Peer-reviewed Publications

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8. Ali Hasnain, S Sana E Zainab, Maulik R. Kamdar, et al. **A Roadmap for navigating the Life Sciences Linked Open Data Cloud.** *4th Joint International Semantic Technology*, November 2014.
9. Muhammad Saleem, Maulik R. Kamdar, et al. **Big Linked Cancer Data: Integrating Linked TCGA and PubMed.** *Web Semantics: Science, Services and Agents on the WWW*, October 2014.
10. Laleh Kazemzadeh, Maulik R. Kamdar, et al. **LinkedPPI: Enabling Intuitive, Integrative Protein-Protein Interaction Discovery.** *4th Workshop on Linked Science, ISWC*, October 2014.
11. Ali Hasnain, Maulik R. Kamdar, et al. **Linked Biomedical Dataspace: Lessons Learned integrating Data for Drug Discovery.** *13th International Semantic Web Conference*, October 2014.
12. Prabuddha Dey, Monami Chakraborty, Maulik R. Kamdar, et al. **Functional characterization of two structurally novel diacylglycerol acyltransferase2 isozymes responsible for the enhanced production of stearate-rich storage lipid in *Candida tropicalis* SY005.** *PLOS ONE*, April 2014.
13. David Croft, Antonio Fabregat Mundo, Robin Haw, Marija Milacic, Joel Weiser, Guanming Wu, Michael Caudy, Phani Garapati, Marc Gillespie, Maulik R. Kamdar, et al. **The Reactome Pathway Knowledgebase.** *Nucleic Acids Research (Database Issue)*, January 2014.
14. Muhammad Saleem, Maulik R. Kamdar, et al. **Fostering Serendipity through Big Linked Data.** *Semantic Web Challenge at the 12th International Semantic Web Conference*, October 2013. **BIG DATA AWARD.**
15. Prabuddha Dey, Maulik R. Kamdar, et al. **Identification of an extracellular antifungal protein from the endophytic fungus *Colletotrichum* DM06.** *Protein and Peptide Letters*, February 2013.

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## Posters and Technical Reports

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1. Maulik R. Kamdar and Mark Musen. **Mining the Life Sciences Linked Open Data Cloud: An Application to Discover Drug-Adverse Reaction Associations.** *BMI Retreat*, September 2016. **BEST POSTER AWARD.**
2. Maulik R. Kamdar and Mark Musen. **Mining the Life Sciences Linked Open Data Cloud for Drug-Adverse Reaction Association Discovery.** *GRC Advanced Health Informatics*, July 2016.
3. Lichy Han, Maulik Kamdar and Daniel Kim. **Predicting Transcription Factor Complexes Using Similarities in Genomic Motifs.** *Big Data in Biomedicine Conference*, May 2016.
4. Maulik R. Kamdar, Tania Tudorache and Mark A. Musen. **Extracting Similar Flavors in the Spaghetti of Biomedical Ontologies.** *BMI Retreat*, September 2015. **BEST POSTER AWARD.**
5. Lichy Han, Winn Haynes, Maulik Kamdar and Alejandro Schuler. **Bioinformatics Search.** *Big Data in Biomedicine Conference*, May 2015.
6. Maulik R. Kamdar and Michel Dumontier. **An Ebola-centered Knowledge Base.** *Bio-X Interdisciplinary Initiatives Seed Grant Symposium*, February 2015.
7. Richard Cyganiak, Maulik R. Kamdar, et al. **Open Data Ireland: Data Audit Report.** *Open Data Ireland Project*, June 2014
8. Maulik R. Kamdar, et al. **ReVealD: A user-driven domain-specific interactive search platform for biomedical research.** *10th Summer School on Ontology Engineering and the Semantic Web*, July 2013. **BEST POSTER AWARD.**

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## Work Experience

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**Center for Biomedical Informatics Research, Stanford University** 2014–current  
*Graduate Research Assistant*

- Analyzed the extent of reuse and overlap of concept terms across biomedical ontologies and developing a WebProtégé term recommendation plugin ([onto-apps.stanford.edu](http://onto-apps.stanford.edu)).
- Developed the Ebola Virus knowledgebase ([ebola.semanticscience.org](http://ebola.semanticscience.org)) and visualization dashboard by aggregating data on genes, proteins, domains, ligands, pathways and publications.

**Digital Enterprise Research Institute, NUI Galway** 2012–2014  
*Linked Data Researcher*

- Contributed to the Ireland Open Data Initiative through a data audit of open Irish public sector datasets and developed the Data.Gov.IE platform for facilitating search and access.
- Involved in Linked Cancer Genome Atlas ([tcga.derl.ie](http://tcga.derl.ie)) project to develop an analytics platform that integrates GWAS, pathways and publications knowledge with the cancer patient datasets.
- Involved in the European FP7 Granatum Project ([granatum.org](http://granatum.org)) to develop a knowledge-driven federated query platform for interactive search and visualization of biomedical data from multiple sources.

**Google Inc., California**

2010–2012

*Summer of Code Student*

- Contributed to Reactome Project (reactome.org) to develop the Reactome Pathway Browser and the Pathway Summary Visualizer, for aggregative visualization and interactive exploration of biological pathways.
- Contributed to Drupal (drupal.org), an open-source content management platform, to develop a module that extends HTML5 support in the platform and visualizes statistical data.

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**Service**

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<b>Web Developer</b> , Goggles Optional, Stanford University	2015–current
<b>Organizing Committee Member</b> , Biomedical Computation @ Stanford (BCATS)	2015–2016
<b>Technical Reviewer</b> , WebGL Game Development, Packt Publishing	2013–2014
<b>Technology Head</b> , Meghnad Saha Hall of Residence, IIT Kharagpur	2010–2012
<b>Vice President</b> , Association of Biotechnologists, IIT Kharagpur	2010–2011
<b>Web Team Developer</b> , Kshitij - IIT Kharagpur Techno-Management Symposium	2008–2010