

# Shriphani Palakodety

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## Personal

Born on March 29, 1991.

Nationality : Indian.

## Education

B.S. Computer Science, Purdue University, 2012 May (Expected)

B.S. Mathematics, Purdue University, 2012 May (Expected)

Cumulative GPA : 3.95

CS GPA : 3.95

Math GPA : 4.0

## Professional Memberships

Upsilon Pi Epsilon (Inducted Spring 2011)

## Research Statement

*Quantification of protein group coherence and pathway assignment using functional association*

The overarching aim was to check how likely proteins are to collaborate in order to perform some function. Traditionally, a curated database that maps proteins to GO terms is used. The earlier approaches used some computational similarity measurement technique for seeing how close the GO terms line up. Our hypothesis was that functional-similarity is not an adequate measure of measuring likelihood of collaborating and in the process we developed 2 coherence scores that demonstrated this. My work was supervised by Dr. Daisuke Kihara and Meghana Chitale. This work resulted in a publication in BMC Bio-informatics [1].

*A 3D path visualization technique for emergency response and training*

The goal of this project was to extend a tool that first-responders use to plan a response in an emergency situation. The original version presented a 2D version of an emergency site and rendered information about the locations of victims, environmental conditions (CO<sub>2</sub> levels, smoke levels) on this 2D figure. My update provided a 3D view of the emergency site, provided panoramic scene views, controllable



- [2] Palakodety, Kim, Ebert, *A 3D path visualization technique for emergency response and training*. SURF Symposium, Summer 2010, [http://shriphani.com/papers/SURF\\_Report.pdf](http://shriphani.com/papers/SURF_Report.pdf) 2010.
- [3] US Productivity Search, <http://sharepoint.microsoft.com/en-us/product/capabilities/search/Pages/Search-Server.aspx> , Summer 2011, 2011.

Latest version can be obtained at:  
<http://shriphani.com/CV.pdf>