

# Sairam Behera

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## Research Interests

Graph Theory, Algorithm Optimization, Bioinformatics, NGS data analysis

## Education

Aug 2012 – . . . .	<b>Ph.D. Computer Science, University of Nebraska-Lincoln, NE</b> Thesis title: <i>Error correction of long reads and improving transcriptome assembly.</i>
Aug 2009 – Dec 2011	<b>M.S. Computer Science, University of Texas at Dallas, TX</b> Thesis title: <i>Algorithm and simulation for optimal delivery of volumetric modulated arc therapy (VMAT).</i>
Aug 2001 – May 2005	<b>B.Tech. (Hons) Computer Science, National Institute of Technology, Rourkela, India.</b> <i>First Class Honors.</i>

## Employment History

Aug 2016 – . . . .	<b>Graduate Research Assistant</b> at Moriyama Lab, School of Biological Sciences, University of Nebraska-Lincoln.
Aug 2012 – May 2016	<b>Graduate Teaching Assistant</b> at Department of Computer Science and Engineering, University of Nebraska-Lincoln.
Mar 2012 – Aug 2012	<b>Software Developer</b> at Tech Mahindra, USA.
May 2010 – Aug 2011	<b>Graduate Research Assistant</b> at Department of Computer Science and Engineering, University of Texas at Dallas.
May 2005 – Jun 2009	<b>Software Developer</b> at Cognizant Technology Solutions, India.

## Research Publications

### Journal Articles

- 1 Behera, S., Lai, X., Liang, Z., Lu, Y., Deogun, J. S., & Schnable, J. C. (2017). Stag-cns: an order-aware conserved noncoding sequences discovery tool for arbitrary numbers of species. *Molecular Plant*, 10(7), 990–999.  
doi:<https://doi.org/10.1016/j.molp.2017.05.010>
- 2 Voshall, A., Behera, S., Moriyama, E. N., & Deogun, J. S. (2017). Ensemble transcriptome assemblies for improving prediction performance. *[Submitted]*.

### Conference Proceedings

- 1 Behera, S., Li, X., Schnable, J., & Deogun, J. S. (2017, November). Dice: discovery of conserved noncoding sequences efficiently. In *2017 IEEE International Conference on Bioinformatics and Biomedicine (BIBM)* (pp. 79–82). doi:10.1109/BIBM.2017.8217628

- 2 Behera, S., Voshall, A., Deogun, J. S., & Moriyama, E. N. (2017, November). Performance comparison and an ensemble approach of transcriptome assembly. In *2017 IEEE International Conference on Bioinformatics and Biomedicine (BIBM)* (Vol. 00, pp. 2226–2228). doi:10.1109/BIBM.2017.8218005
- 3 Pavlovikj, N., Begcy, K., Behera, S., Campbell, M., Walia, H., & Deogun, J. S. (2016, December). Analysis of transcriptome assembly pipelines for wheat. In *2016 IEEE International Conference on Bioinformatics and Biomedicine (BIBM)* (pp. 137–140). doi:10.1109/BIBM.2016.7822507
- 4 Pavlovikj, N., Begcy, K., Behera, S., Campbell, M., Walia, H., & Deogun, J. S. (2014a, May). A comparison of a campus cluster and open science grid platforms for protein-guided assembly using pegasus workflow management system. In *2014 IEEE International Parallel Distributed Processing Symposium Workshops* (pp. 546–555).
- 5 Pavlovikj, N., Begcy, K., Behera, S., Campbell, M., Walia, H., & Deogun, J. S. (2014b). Comparing and optimizing transcriptome assembly pipeline for diploid wheat. In *Proceedings of the 5th ACM conference on bioinformatics, computational biology, and health informatics* (pp. 603–604). BCB '14. Newport Beach, California: ACM. doi:10.1145/2649387.2662450
- 6 Pavlovikj, N., Begcy, K., Behera, S., Campbell, M., Walia, H., & Deogun, J. S. (2014c). Evaluating distributed platforms for protein-guided scientific workflow. In *Proceedings of the 2014 annual conference on extreme science and engineering discovery environment* (38:1–38:8). XSEDE '14. Atlanta, GA, USA: ACM. doi:10.1145/2616498.2616551
- 7 Pavlovikj, N., Begcy, K., Behera, S., Campbell, M., Walia, H., & Singh Deogun, J. (2014, March). Evaluating assembly pipeline for transcriptomes. In *Proceedings of the 6th international conference on bioinformatics and computational biology, bicob 2014*.
- 8 Behera, S., Daescu, O., & Papiez, L. (2011, November). Optimal delivery of volumetric modulated arc therapy (vmat) for moving target. In *2011 IEEE International Conference on Bioinformatics and Biomedicine Workshops (BIBMW)* (pp. 297–304). doi:10.1109/BIBMW.2011.6112390

## Skills

Languages	Strong reading, writing and speaking competencies for English, Hindi, Odia.
Coding	C, C++, Java, Python, R, $\text{\LaTeX}$
Databases	MySQL, Oracle
Web Dev	HTML, CSS, JavaScript

## Miscellaneous Experience

### Awards and Achievements

- 2010     **Merit Award**, Dean's Excellence Scholarship for Graduate Students, University of Texas at Dallas.
- 2015     **Department Prize for Outstanding Teaching Assistant**, Department of Computer Science and Engineering, University Nebraska-Lincoln.

## References

Available on request.