Sinjini Sikdar

<u>Curriculum vitae</u>

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Education

- Fall 2015-present : PhD candidate, Department of Biostatistics, University of Florida Gainesville, FL 32611, U.S.A
 PhD advisor: Prof. Susmita Datta, Department of Biostatistics, University of Florida
- Fall 2013- Summer 2015 : PhD student, Department of Bioinformatics and Biostatistics, University of Louisville Louisville, KY 40202, U.S.A
- 2010-2012 : M.Sc., Statistics Department of Statistics, University of Calcutta Kolkata, India
- 2007-2010 : B.Sc., Statistics (Honors)
 Department of Statistics, Presidency College, University of Calcutta Kolkata, India

Employment

• Fall 2015 - Present : Graduate Research Assistant Department of Biostatistics, University of Florida

- Fall 2013 Summer 2015 : Graduate Research Assistant Department of Bioinformatics and Biostatistics, University of Louisville.
- August 2012 March 2013 : Guest lecturer Asutosh College, University of Calcutta, Kolkata, India.

Research Interests

- Bioinformatics
- Transcriptomics
- Genomics
- Meta-analysis and integrative analysis of -omics data
- Proteomics
- Statistical Genetics

Publications

- 1. Datta A., **Sikdar S.**, Gill R. Differences in protein-protein association networks for lung adenocarcinoma: A retrospective study. *Bioinformation* 2014; 10(10): 647–651. DOI: 10.6026/97320630010647.
- 2. **Sikdar S.**, Choo-Wosoba H., Abdia Y., Dutta S., Gill R., Datta S., Datta S. An integrative exploratory analysis of –omics data from the ICGC cancer genomes lung adenocarcinoma study. *Systems Biomedicine* 2014; 2(3): 54-62.
- 3. **Sikdar S.**, Gill R., Datta S. Improving protein identification from tandem mass spectrometry data by one-step methods and integrating data from other platforms. *Briefings in Bioinformatics* 2016; 17(2):262-269.
- Sikdar S., Datta S., Datta S. Exploring the importance of cancer pathways by meta-analysis of differential protein expression networks in three different cancers. *Biology Direct* 2016; 11: 65.
- 5. **Sikdar S.**, Datta S. A novel statistical approach for identification of the master regulator transcription factor. *BMC Bioinformatics* 2017; 18: 79.

- 6. Mitra R., Gill R., **Sikdar S.**, Datta S. Bayesian hierarchical model for protein identifications. Under revision.
- 7. **Sikdar S.**, Datta S., Datta S. Empirically adjusted meta-analysis (EAMA) for large-scale simultaneous hypothesis testing in genomic experiments. Submitted.

Computation Skills

• R programming, C programming, Minitab, MS-Excel.

Conferences

2016	Oral presentation at the 13 th Annual Conference on Frontiers in Applied and Computational Mathematics (FACM '16), Newark, U.S.A.
2016	Poster presentation at the University of Florida.
2015	Oral presentation at the 9 th International Triennial Calcutta Symposium on Probability and Statistics, Kolkata, India.
2014	Oral presentation at the 13 th Annual International Conference on Critical Assessment of Massive Data Analysis (CAMDA 2014), Boston, U.S.A.

Awards and Honors

2017	University of Florida the Public Health and Health Professions Dean's Ph.D. Travel Award.
2016	Travel award from New Jersey Institute of Technology (NJIT) for FACM'16, Newark, USA.
2014	2 nd prize for excellent research presented at the 13th Annual International Conference on Critical Assessment of Massive Data Analysis.
2014	University of Louisville Graduate School Council Travel award for CAMDA 2014.
2014	Travel award for CAMDA 2014 from Department of Bioinformatics and Biostatistics, University of Louisville.

2012 1st place in the master's program of Statistics, University of Calcutta.

Scholarly Journal Refereeing

- Referee for International Journal of Bioinformatics and Biological Systems (IJBBS).
- Referee for BMC Bioinformatics.

Professional Membership

- Member of ENAR (Eastern North American Region).
- Invited member of Golden Key International Honour Society.

Collaborative Research

- **Worked on Single-cell RNA-Seq datasets**: Analyzed Single-cell RNA-Seq datasets to find the differentially expressed set of genes using R-package "MAST".
- **Worked on Microbiome datasets**: Analyzed microbiome datasets to find the important OTUs using "limma" and "voom" packages in Bioconductor.

Teaching Experience

- Advanced Biostatistical Methods II (PhD core course, University of Florida): Duties included conducting tutorial sessions and grading examinations.
- Biostatistical Methods II (MS level course, University of Louisville): Duties included conducting weekly help sessions in R programming.
- Biomedical Data Analysis and Design (MS level course, University of Louisville): Duties included grading student assignments and preparing solutions.