Suprateek Chatterjee

Contact Information	Lab-4315, CC-2, IIIT-Allahabad Allahabad, INDIA	✉: suprateek.chatterjea@gmail.com ☞: suprateekchatterjee.github.io

Research Interests Biomedical Informatics, Network Biology, Molecular Networks, Network Medicine

Education

Indian Institute of Information Technology, Allahabad, UP.

Ph.D., Applied Sciences (Bioinformatics) 2014 - present

Thesis: A Graph-Theoretic Approach To Model Pathogen-Host Interactions.
Advisor: B. S. Sanjeev

M.Tech., Applied Sciences (Bioinformatics) 2012 - 2014

Thesis: A Contact Map-Based Approach To Predict Conformational Epitope Residues.
Advisor: B. S. Sanjeev

Manipal University, Manipal, KA.

B.S., Pharmaceutical Sciences 2007 - 2011

Research Experience

Research Assistant Jul 2014 - present
Department of Applied Sciences,
Indian Institute of Information Technology, Allahabad

Teaching Assistant Jul 2012 - Jun 2014
Department of Applied Sciences,
Indian Institute of Information Technology, Allahabad

Refereed Journal Publications

1. **S. Chatterjee** and B. S. Sanjeev,
"Identification of Human Proteins vulnerble to multiple Organisms."
In Proceedings of International Conference of Bioinformatics & Systems Biology (BSB), pp. 1-4, March 04-06, 2016.
doi: 10.1109/BSB.2016.7552164

2. **S. Chatterjee** and B. S. Sanjeev,
"Community detection in Epstein-Barr virus associated carcinomas and role of tyrosine kinase in etiological mechanisms for oncogenesis."
Microbial Pathogenesis, 180 (106115), pp. 1-7, 2023.
doi: 10.1016/j.micpath.2023.106115

3. **S. Chatterjee** and B. S. Sanjeev,
"Network-based community detection of comorbidities and their association with SARS-CoV-2 virus during COVID-19 pathogenesis."
Under revision, 2023.
doi: https://arxiv.org/pdf/2205.15968.pdf

Posters

1. **S. Chatterjee** and B. S. Sanjeev,
   "Modular Communities in Infectious Disease Networks",
   DMPH-2019 Meeting, ICTS-TIFR Bangalore, Jul 03, 2019.

2. **S. Chatterjee** and B. S. Sanjeev,
   "Inter-connectivity leads to vulnerability in biological networks",
   Research Day, IIIT Allahabad (Best poster prize), Mar 24, 2018.

Papers in Preparation

1. **S. Chatterjee** and B. S. Sanjeev,
   "Community detection in infectious disease networks". *In preparation*, 2022.

2. **S. Chatterjee** and B. S. Sanjeev,
   "Prediction of conformational epitopes using contact map-based approaches".
   In preparation.

Awards

Doctoral Fellowship	2014 - 2019
Post-graduate Scholarship	2012 - 2014

Talks / Seminars

DMPH 2019, ICTS-TIFR, Bangalore	Jul 2019
Research Day, IIIT-Allahabad	Mar 2018
WBSB 2016, IIIT-Allahabad	Mar 2016
Seminar on Patterns in Nature, HRI-Allahabad	Feb 2015
Workshop on Computational Systems Biology, IIT-Kharagpur	Mar 2014

Teaching Experience

Research Assistant

Omics-II	Jan-May 2019
Scripting & Computing Environments	Jul-Dec 2018
Omics-II	Jan-May 2018
Scripting & Computing Environments	Jul-Dec 2017
Omics-II	Jan-May 2017
Scripting & Computing Environments	Jul-Dec 2016
Introduction to Data Structures	Jan-May 2016
Algorithms Analysis & Programming Practices	Jul-Dec 2015
Language, Algorithms & Tools	Jan-May 2015
Algorithms Analysis & Programming Practices	Jul-Dec 2014

Teaching Assistant

Introduction to Programming	Jul-Dec 2013
Data Structures & Algorithms	Jan-May 2013
Introduction to C++ Language	Jul-Dec 2012

Professional Activities	Journal Paper Reviewer: Infection, Genetics and Evolution (Elsevier) Conference Paper Reviewer: IEEE WBSB
Skills And Interests	Platform: Linux and Windows Programming languages: C, Perl, Python, R, LaTeX Web Development: HTML/CSS, PHP Other Tools: Gnuplot, VMD, Chimera Office Work: MS Office, Libre Office Other Interests: Quizzing, Photography, Playing Chess & Puzzles.
Relevent Courses	Fundamentals of Computing, Data Structures & Algorithms, Biostatistics & Probability Theory, Genomics & Proteomics, Languages, Algorithms & Tools, Data Mining in Biological Systems, Molecular Structure Prediction & Validation, Database Management Systems, Machine Learning for Biological Systems, Systems Biology, Biomedical Instrumentation, Probability & Stochastic Process, Computer Aided Drug Design, Molecular Medicine.
References	B. S. Sanjeev, Ph.D Assistant Professor Department of Applied Sciences IIIT, Allahabad ☎: +91-532-2922-2238 ✉: sanjeev@iiita.ac.in Krishna Misra, Ph.D Professor Department of Applied Sciences IIIT, Allahabad ☎: +91-532-2922-2203 ✉: kmisra@iiita.ac.in