Suprateek Chatterjee

CONTACT INFORMATION	HPC Lab, CC-2, IIIT-Allahabad Allahabad, UP 211012, INDIA	✉: suprateek.chatterjea@gmail.com ☞: suprateekchatterjee.github.io

RESEARCH INTERESTS

Molecular Networks, Network Medicine, Graph Theory, Network Biology

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,
   "Role of Toll-like receptors in the interplay between pathogen and damage associated molecular patterns". *Communicated*, 2019.

REFEREED CONFERENCE 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.

POSTERS

1. **S. Chatterjee** and B. S. Sanjeev,
   "Modular communities in Infectious Disease Networks",
   DMPH-2019 Meeting, ICTS 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, "Prediction of conformational epitopes using contact map-based approaches". *In preparation.*

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

TALKS / SEMINARS ATTENDED
- DMPH-2019 Meeting — Jul 2019
  International Centre for Theoretical Sciences, TIFR
- IIIT-A Research Day — Mar 2018
  IIIT-Allahabad
- Workshop on Machine Learning & Data Analytics — Jul 2017
  IIIT-Allahabad
- International Conference on Bioinformatics & Systems Biology — Mar 2016
  IIIT-Allahabad
- Seminar on Patterns in Nature — Feb 2015
  Harish Chandra Research Institute, Allahabad
- Workshop on Computational Systems Biology — Mar 2014
  Dept. of Computer Science, IIT-Kharagpur
- National Seminar on Human Brain-A Mystery Organ — Aug 2013
  IIIT-Allahabad and National Brain Research Center
- Workshop on Systems Biology — Mar 2013
  IIIT-Allahabad
- Seminar on Stem Cell-An Emerging Healthcare Frontier — Aug 2012
  IIIT-Allahabad

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

SKILLS AND INTERESTS	PLATFORM: Linux (Fedora | Ubuntu) and Windows PROGRAMMING LANGUAGES: C/C++, Perl, R, LaTeX WEB DEVELOPMENT: HTML/CSS, PHP OTHER TOOLS: MySQL, Weka, MATLAB, PyMOL, VMD OFFICE WORK: MS Office, Open 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 Mishra, Ph.D Professor Department of Applied Sciences IIIT, Allahabad ☎: +91-532-2922-2203 ✉: kmisra@iiita.ac.in