

Mohammad Ali Moni

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Education

PhD in Bioinformatics 2011 – 2015
Computer Laboratory, University of Cambridge, UK

- **Supervisor:** Dr. Pietro Liò
Thesis: Clinical bioinformatics and computational modelling for disease comorbidities diagnosis
- **Awards:** (i) IDB Merit Scholarship Programme for High Technology (MSP)
(ii) The Cambridge Commonwealth, European & International Trust award

MSc in Computer Science and Engineering 2004 – 2005
Islamic University, Bangladesh

- **Thesis:** Recognition of Continuously Spoken Bangla Numbers
- **Awards:** (i) Placed first class first position in year 2005
(ii) University Merit Scholarship

BSc Computer Science and Engineering 1999 – 2003
Islamic University, Bangladesh

- **Thesis:** Development of machine learning algorithm for Sologuti Game
- **Awards:** (i) Placed first class first position in year 2003
(ii) University Merit Scholarship

Work Experience

- **Computer Laboratory, University of Cambridge**
 - Co-supervise MPhil student and 3rd year student thesis 2013
Practical classes of MPhil Bioinformatics and System biology students
Undergraduate supervision of Bioinformatics
 - Co-supervise MPhil student thesis 2012
Practical classes of MPhil Bioinformatics and System biology students
- **Assistant Professor**, Dept. of Computer Science and Engineering, Pabna University of Science & Technology, Bangladesh 09/2010 - 04/2011
- **Lecturer**, Dept. of Computer Science and Engineering, Pabna University of Science & Technology, Bangladesh 08/2009 - 08/2010
- **Lecturer**, Dept. of Computer Science and Engineering, Jatiya Kabi Kazi Nazrul Islam University, Bangladesh 03/2007 - 08/2009
- **Lecturer**, Dept. of Computer Science, MDIC, Bangladesh 09/2006 - 03/2007
- **Lecturer**, Dept. of Computer Science, National Information Technology, Bangladesh 06/2006 - 09/2006

Publications (Journals)

1. Moni, M.A., Mariani, S., Poli, G., Liò P., Vicenzi, E. (2014).: HIV-1 Molecular Strains Differing for CCR5 and CXCR4 Co-Receptor Use and Post-Entry Replication Efficiency Activate Distinct Gene Expression Profiles in Human Cord Blood CD4+ T Lymphocytes. Submitted to PNAS.
2. Moni, M.A., Haoming Xu, Liò, P (2014). Network regularised Cox Regression Model to predict survival and comorbidity of cancer. Submitted to Bioinformatics.
3. Moni MA, Liò P (2014). comoR: a software for disease comorbidity risk assessment. Journal of clinical bioinformatics (in press).
4. Moni MA, Liò P (2014). Network-based analysis of comorbidities risk during an infection: SARS and HIV case studies. BMC bioinformatics (accepted).
5. Moni MA, Liò P. (2014) Evidence based risk assessment of disease comorbidity. BMC Health services Research (in press).
6. Moni, M.A., Mariani, S., Poli, G., Liò P., Vicenzi, E.: Differential impacts of r5 vs. x4 hiv-1 on the transcriptome of primarycd4+ t cells. Retrovirology 10 (Suppl 1), 114 (2013).
7. Liò P, Paoletti, N., Moni, M.A., Atwell, K., Merelli, E., Viceconti, M.: Modelling osteomyelitis. BMC bioinformatics 13 (Suppl 14), 12 (2012).
8. Md. Mijanur Rahman, Md. Farukuzzaman Khan and Mohammad Ali Moni, Speech Recognition Front-end for Segmenting and Clustering Continuous Bangla Speech, DIU Journal of Science and Technology, Daffodil International University, Dhaka, Bangladesh, Vol 5(1), Jan 2010.
9. Mohammad Ali Moni, Md. Farukuzzaman Khan and Md. Mijanur Rahman, "Recognition of Continuously Spoken Bangla Numbers", Southeast University Journal of Science & Engineering (SEUJSE), Vol. 2(2), January 2009.
10. Mohammad Ali Moni, Md. Mijanur Rahman and M. Sujan Ali, "Automatic Classification of Bangla Music Collection", International Journal of Engineering and Technology, Vol 5(4), 381-386, Dec 2008.
11. M. Sujan Ali , Mst. Jannatul Ferdous, Mohammad Ali Moni, Cost Optimization and Quick Protection Technique for WDM Mesh Network. International Journal of Engineering and Technology (IJET), 5(4): 365-371, Dec 2008.

Publications (Conferences and Workshops)

1. Moni MA, Liò P. (2013). Comparing viral (HIV) and bacterial (staphylococcus aureus) infection of the bone tissue. BIOINFORMATICS 2013 (Spain), page 196-201. SciTePress, (2013).
2. Moni MA, Liò P. (2013). Statistical Methodologies for infection related diseases comorbidity, REPOSI 2013, Italy, September 25-26, 2013.
3. Moni MA, Liò P. (2013). Differential capacity of CCR5- and CXCR4-dependent HIV-1 strains to replicate in primary cord blood CD4+ T cells. A transcriptome analysis. 15th International Congress of Immunology – ICI2013, August 22 – 27, Milan, Italy.
4. Moni MA, Liò P. (2013). Systems biology methodologies for infection related diseases comorbidity, Infectious Disease Dynamics 2013 (IDD2013), 19 – 23 August 2013, Isaac Newton Institute for Mathematical Sciences, Cambridge, UK.
5. Moni, M. and Ali, A. S. (2009). Hmm based hand gesture recognition: A review on techniques and approaches. 2nd IEEE International Conference on Computer Science and Information Technology, 2009. IEEE ICCSIT 2009. pages 433–437.
6. Moni, M. and Ali, A. S. (2009b). Object identification based on deformable templates and genetic algorithms, IEEE BIFE'09, pages 114–117.
7. Mohammad Ali Moni, "The essential role of Natural Language Processing (NLP) in e-governance: Examining the issues and highlighting the advantages", 8th International Language & Development Conference, Dhaka, Bangladesh, June 23-25, 2009.

Book:

1. Mohammad Ali Moni-"Basic Computer Skills " -Book for Bachelor of Education, Published by Ministry of Educa-

tion of Bangladesh and Bangladesh Open University, September 2008 (EDBN 2318).

Technical Skills

Software: C, C++, Java, JavaScript, R, Matlab, Perl, Python, shell script, VB
Worked and developed in Unix and Windows environments.

References

Dr. Pietro Liò

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Dr. Tawfique Hasan

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