

Jing Liu

CONTACT INFORMATION	Division of Scientific Computing, Dept. of Information Technology, Uppsala University Box 337, SE-751 05 Uppsala Sweden	Office: +46 18-471 2967 Fax: +46 18 523049 Cell: +46 700629582 Email: jing.liu@it.uu.se
	Lab of Molecular Biophysics, Dept. of Cell and Molecular Biology UPPSALA University, Sweden	Email: jing.liu@icm.uu.se
WORK EXPERIMENTS	<ul style="list-style-type: none">• Consultant in Lanxian Studio, Part-time• Project Online office system, Part-time	September 2009 – June 2010 March 2009 – August 2009
RESEARCH INTERESTS	I have a very broad interests in computer aided life science, biology and physics. Currently, I am focus on X-ray single-particle imaging, including 3D molecular structure reconstruction, diffraction pattern recognition, etc. In addition, I am interested in high performance computing, image analysis, and machine learning.	
PUBLICATIONS	<ul style="list-style-type: none">• Engblom, S. & Liu, J. (2014). X-ray laser imaging of biomolecules using multiple GPUs. In: <i>Parallel Processing and Applied Mathematics: Part I</i>. Paper presented at PPAM 2013 (pp. 480-489). Berlin: Springer-Verlag• Ekeberg, T. & Engblom, S. & Liu, J. (2015). Machine learning for ultrafast X-ray diffraction patterns on large-scale GPU clusters. In: <i>Journal of International Journal of High Performance Computing Applications</i> (pp. 29:233-243). SAGE Publications.	
TEACHING EXPERIENCE	Programming of Parallel Computers, 2014 Programming of Parallel Computers, 2015 Programming of Parallel Computers 2016	
EDUCATION	Uppsala University , Uppsala, Sweden <ul style="list-style-type: none">• Ph.D. candidate, Biophysics, <i>Expected</i>: Autumn 2017<ul style="list-style-type: none">• Thesis Topic: <i>Parallel algorithms in imaging of biomolecules with X-ray lasers</i>• M.S., Computer science, September 2012<ul style="list-style-type: none">• Topic: <i>Implementation of a Semi-automatic Tool for Analysis of TEM Images of Kidney Samples</i> Harbin Institute of Technology , Harbin, China <ul style="list-style-type: none">• B.Eng Software Engineer, June 2010<ul style="list-style-type: none">• Thesis Topic: <i>Large-scale network events simulations using NS2</i>	
OTHER ACTIVITY	<ul style="list-style-type: none">• Organizing Complex System Working lunch seminar• Collaboration Research at Osaka University• Local organizer of CIM Workshop on Machine Learning	September 2013 – Present March 2015 October, 2015
FREE SOFTWARE	<ul style="list-style-type: none">• OpenMPI examples, available at MPI_DEMO• FXI 3D reconstruction package using multiple GPUs, available at FXIhub/emc	