Rajaditya **Mukherjee**

PHD STUDENT IN COMPUTER GRAPHICS

Dreese Laboratories 2015 Neil Ave. Columbus OH 43201 USA

☎ (+1) 614-271-4439 | ✉ rajaditya.mukherjee@gmail.com | ⌂ www.rajaditya.com | ⌨ rajaditya-m | in rajaditya

Seeking a challenging software engineering internship position for the summer of 2017

Education

The Ohio State University	*Columbus, OH*
PHD IN COMPUTER SCIENCE AND ENGINEERING	*Aug. 2012 - May 2018(Expected)*

- Major in Computer Graphics, Minor in AI and Algorithms, CGPA : 3.98/4.00

Jadavpur University	*Kolkata, India*
B.TECH. IN COMPUTER SCIENCE AND ENGINEERING	*Aug. 2007 - Aug.2011*

Professional Experience

Walt Disney Animation Studios	*Burbank, CA*
TECHNICAL SUMMER INTERN - DISNEY RESEARCH	*May 2016 - Aug. 2016*

- Researched the feasibility of a novel collision resolution algorithm for Disney's inhouse cloth simulation product.
- **Technologies** : C++, Parallel Solvers, Numerical Computing

Styku Inc.	*Los Angeles, CA*
CLOTH SIMULATION INTERN	*May. 2014 - Jul. 2014*

- Fixed several multi-threaded bug in the CUDA-based Cloth Solver.
- Implemented algorithms for improving collisions as well as dynamics for cloth simulation.
- **Technologies** : C++, CUDA

Synopsys India Pvt. Ltd.	*Bangalore, India*
R & D ENGINEER I	*May. 2011 - Jul. 2012*

- Implemented a unified messaging infrastructure for our product.
- Implemented from scratch, a compiler for a separate power architecture description language.
- **Technologies** : C++, Verilog

Technical Skills

Programming Proficiency	C,C++,Java,Python,PHP,Javascipt
Graphics API	OpenGL { Core and GLSL 4.0 }
Parallel Programming API	CUDA, OpenMP
Artifical Intelligence	cuDNN, TensorFlow
Numerical Computing	NumPy, SciPy, Intel MKL, MATLAB, Mathematica, BLAS

Publications

R. Mukherjee, H. Wang *Interactive Two-Way Shape Design of Elastic Bodies* Under Submission

R. Mukherjee, X. Wu, H. Wang *Incremental Deformation Subspace Reconstruction* Computer Graphics Forum (Pacific Graphics 2016)

X. Wu, **R. Mukherjee**, H.Wang *A Unified Approach for Subspace Simulation of Deformable Bodies in Multiple Domains* ACM Transactions on Graphics (SIGGRAPH Asia 2015)

S. Hazarika, T.Wei, **R. Mukherjee**, A.Barbur *Visualizing the life and anatomy of dark matter* SciVis 2015 (Visualization Contest)

Honors & Awards

2012	**Graduate School Fellowship**, The Ohio State University	*Columbus, OH*
2011	**UGC Undergraduate Research Scholarship**, Jadavpur University	*Kolkata, India*
2010	**WISE Research Scholarship**, German Academic Exchange Service (DAAD)	*Berlin, Germany*