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Research Interests	Software visualization; performance modeling, analysis, and visualization; cache simulation, analysis, and visualization		
Education	University of Utah, Salt Lake City, UT		
	Ph.D., Computer Science, expected May 2012		
	 Dissertation title: Analysis and Visualization of Memory Reference Traces Co-advisors: Professors Paul A. Rosen and Steven G. Parker 		
	University of Chicago, Chicago, IL		
	B.S., Computer Science and Mathematics, June 2003		
Publications	A.N.M. Imroz Choudhury , Bei Wang, Paul A. Rosen, and Valerio Pascucci. Topological Analysis and Visualization of Cyclical Behavior in Memory Reference Traces. <i>Proceedings of the 5th IEEE Pacific Visualization Symposium</i> . February 2012.		
	A.N.M. Imroz Choudhury and Paul A. Rosen. Abstract visualization of runtime memory behavior. <i>Proceedings of the 6th IEEE International Workshop on Visualizing Software for Understanding and Analysis.</i> September 2011.		
	A.N.M. Imroz Choudhury , Michael D. Steffen, James E. Guilkey, and Steven G. Parker. Enhanced understanding of particle simulations through deformation-based visualization. <i>Computer Modeling in Engineering & Sciences.</i> 63(2):117–136. 2010.		
	A.N.M. Imroz Choudhury and Steven G. Parker. Ray tracing NPR-style feature lines. <i>Proceedings of the 7th International Symposium on Non-Photorealistic Animation and Rendering</i> . August 2009.		
Papers in Submission	A.N.M. Imroz Choudhury and Paul A. Rosen. Cache Ensemble Analysis for Understanding Algorithmic Memory Performance. <i>IEEE Transactions on Computers</i> .		
Papers in Preparation	A.N.M. Imroz Choudhury and Paul A. Rosen. Visual element design for memory reference trace and cache visualization.		
	Christiaan P. Gribble and A.N.M. Imroz Choudhury. Cache considerations for high-performance streaming ray tracing architectures.		
Teaching Experience	University of Utah, Salt Lake City, UT		
	Teaching Assistant	September 2011 to present	
	• Lead TA for CS1400 (Introduction to Computer Science) Teach 6 mandatory lab sections per week, augmenting material taught in lectures. Provide 3 office hours per week to help students directly with homework, concepts, etc. Grade homework assignments.		

A.N.M. (Roni) Imroz Choudhury

	Teaching Assistant	September 2004 to May 2005	
	• TA for CS3500 (Software Practice) Taught 2 lab sections per week, leading s on topics from syllabus as needed by st week to help students with programmin assignments.	tudents in lab exercise and lecturing udents. Provided 2 office hours per ng assignments. Graded homework	
Conference Presentations	Abstract Visualization of Runtime Memory Behavio on Visualizing Software for Understanding and A with International Conference on Software Maintee VA.	r. 6th IEEE International Workshop Analysis (VISSOFT 2011, co-located enance). September 2011. Williamsburg,	
	Ray Tracing NPR-Style Feature Lines. 7th International Symposium on Non-Photorealistic Animation and Rendering (NPAR 2009, co-located with SIGGRAPH). August 2009. New Orleans, LA.		
	Interactive Visualization for Memory Reference Traces. Eurographics/IEEE Symposium on Visualization (EuroVis 2008). May 2008. Eindhoven, Netherlands.		
Invited Talks	Visualizing Deformation in the Material Point and other Particle Methods. 4th Annual Material Point Method Workshop. March 2008. Salt Lake City, UT.		
Service	 Member, School of Computing Graduate Student May 2005 to May 2006 Served as liaison between faculty and students changes, etc. Planned and executed social events for the Scho Represented GradSACs across campus to Dear detrimental changes to graduate student tuition with the Dean that benefitted all parties). 	Ig Graduate Student Advisory Committee (GradSAC), faculty and students regarding graduate program policy al events for the School of Computing ross campus to Dean of the Graduate School regarding luate student tuition benefit policies (reaching an agreement ted all parties).	
	 Paper reviewer PARA 2006: SIAM Workshop on State-of-the-As RT 2008: IEEE Symposium on Interactive Ray 	rt in Scientific and Parallel Computing Tracing	
Software Skills	 Computer Programming Programming languages: C, C++, Java, Python and others Programming technologies: Boost, MPI, CUDA 	, UNIX shell scripting, Mathematica,	

REFERENCES Available upon request.