

Miklós Bergou

CONTACT INFORMATION	Adobe Systems, Inc. 345 Park Ave., Mailstop ET07 San Jose, CA 95110	phone: 408 365 4764 e-mail: mbergou@adobe.com web: http://mbergou.com/
RESEARCH INTERESTS	Physical simulation of deformable objects; Geometry processing; Computational photography; Physical and mathematical foundations of computer animation and graphics	
EMPLOYMENT	Computer Scientist , Advanced Technology Labs, Adobe Systems, Inc.	September 2010–present
	<ul style="list-style-type: none">• Work experience includes image relighting, image editing, geometry processing, and mesh parameterization• Responsibilities are to conceive research projects, develop prototype solutions, and implement mature projects as product features	
EDUCATION	Columbia University , New York, NY	Aug 2005 – May 2010
	<i>PhD in Computer Science</i> (May 2010) and <i>MS in Computer Science</i> (Feb 2007)	
	<ul style="list-style-type: none">• Advisor: Prof. Eitan Grinspun• Thesis: <i>Discrete Geometric Dynamics and Artistic Control of Curves and Surfaces</i>	
	Carnegie Mellon University , Pittsburgh, PA	Aug 2001 – May 2005
	<i>BS in Computer Science</i> and <i>BS in Physics</i>	
	<ul style="list-style-type: none">• Minor: Mathematics• GPA: 4.0	
PUBLICATIONS	“Discrete Viscous Threads,” M. Bergou, B. Audoly, E. Vouga, M. Wardetzky, E. Grinspun. <i>ACM Transactions on Graphics</i> (SIGGRAPH), 29(4), July 2010, pp. 116:1–116:10.	
	“Discrete Elastic Rods,” M. Bergou, M. Wardetzky, S. Robinson, B. Audoly, and E. Grinspun. <i>ACM Transactions on Graphics</i> (SIGGRAPH), 27(3), August 2008, pp. 63:1–63:12.	
	“TRACKS: Toward Directable Thin Shells,” M. Bergou, S. Mathur, M. Wardetzky, and E. Grinspun. <i>ACM Transactions on Graphics</i> (SIGGRAPH), 26(3), July 2007, pp. 50:1–50:10.	
	“Discrete Quadratic Curvature Energies,” M. Wardetzky, M. Bergou, D. Harmon, D. Zorin, and E. Grinspun, <i>Computer Aided Geometric Design</i> , 24(8-9), 2007, pp. 499–518.	
	2010 Most Cited Paper Award for <i>Computer Aided Geometric Design</i>	
	“Discrete Quadratic Curvature Energies,” M. Bergou, M. Wardetzky, D. Harmon, D. Zorin, and E. Grinspun, <i>Discrete Differential Geometry: An Applied Introduction</i> , <i>SIGGRAPH course notes</i> (2006).	
	“A Quadratic Bending Model for Inextensible Surfaces,” M. Bergou, M. Wardetzky, D. Harmon, D. Zorin, and E. Grinspun. <i>Symposium on Geometry Processing</i> , June 2006, pp. 227–230.	
PROFESSIONAL EXPERIENCE	Reviewer	
	SIGGRAPH 2007–2011, SIGGRAPH Asia 2009; Eurographics 2011 and 2012; Transactions on Graphics (TOG) 2011; Transactions on Vision and Computer Graphics (TVGC) 2009; Symposium on Computer Animation (SCA) 2006, 2009 and 2011; Symposium on Geometry Processing (SGP) 2006; Symposium on Interactive 3D Graphics and Games (i3D) 2009; Medical Image Analysis (MedIA) 2009	
	Researcher , Carnegie Mellon University	Summer 2004
	<ul style="list-style-type: none">• Worked with Prof. Gary Miller on simulation of blood cell flow• Project entitled “Solving Partial Differential Equations Numerically”• http://www.aladdin.cs.cmu.edu/reu/mini_probes/2004/mesh_pde.html	

TEACHING EXPERIENCE	Lecturer , Columbia University	Spring 2009
	<ul style="list-style-type: none"> • Primary lecturer for COMS4167 Physically Based Computer Animation (co-lecturer D. Harmon) • Designed and taught the course, including lectures, assignments, and exams 	
	Guest lecturer , Columbia University	Spring 2006
	<ul style="list-style-type: none"> • COMS3202 Discrete Mathematics 	
	Teaching Assistant , Carnegie Mellon University	Fall 2003 – Spring 2005
	<ul style="list-style-type: none"> • 15-462 Introduction to Computer Graphics • 15-212 Principles of Programming • 15-211 Fundamental Data Structures and Algorithms • Taught recitations, held office hours, and designed projects 	
AWARDS	Intel PhD Fellowship Award , Intel	2009
	Autodesk Research Fellowship , Autodesk	2008
	Presidential Distinguished Fellowship , Columbia University	2005-2009
	Samuel Horelick Scholarship , Carnegie Mellon University	Fall 2004
	Andrew Carnegie Society Scholar , Carnegie Mellon University	Fall 2004
	Boeing Leadership Scholarship , Carnegie Mellon University	Fall 2003
HONORS	Sigma Pi Sigma Honor Society , Carnegie Mellon University	Spring 2005
	Senior Leader Recognition , Carnegie Mellon University	Spring 2005
	Phi Beta Kappa Honor Society , Carnegie Mellon University	Fall 2004
	Phi Kappa Phi Honor Society , Carnegie Mellon University	Fall 2003
	National Society of Collegiate Scholars , Carnegie Mellon University	Spring 2002
	Dean's List , Carnegie Mellon University School of Computer Science	2001-2005
PRESS	“Professor’s work leads to animation advances.” F. Vigeland, Columbia Spectator. Sep 2010. http://www.columbiaspectator.com/2010/09/28/professor-s-work-leads-animation-advances	
	“Student granted Intel Fellowship for graphics.” T. P. Wood, Columbia Spectator. Nov 2009. http://www.columbiaspectator.com/2009/11/20/student-granted-intel-fellowship-graphics	