

Miklós Bergou

CONTACT INFORMATION 450 Computer Science Building office: 212 939 7076
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RESEARCH INTERESTS Physical simulation of deformable solids and fluids, rigid bodies; physical and mathematical foundations for computer animation and graphics; scientific computing

EDUCATION **Columbia University, New York, NY**
PhD in Computer Science Feb 2007 – present

- Expected graduation date: May 2010
- Advisor: Professor Eitan Grinspun
- GPA: 4.21

MS in Computer Science Aug 2005 – Feb 2007

Carnegie Mellon University, Pittsburgh, PA

BS in Computer Science and BS in Physics Aug 2001 – May 2005

- Minor: Mathematics
- GPA: 4.0

PUBLICATIONS “Discrete Elastic Rods,” M. Bergou, M. Wardetzky, S. Robinson, B. Audoly, and E. Grinspun, SIGGRAPH (2008).

“TRACKS: Toward Directable Thin Shells,” M. Bergou, S. Mathur, M. Wardetzky, and E. Grinspun, SIGGRAPH (2007).

“Discrete Quadratic Curvature Energies,” M. Wardetzky, M. Bergou, D. Harmon, D. Zorin, and E. Grinspun, Computer Aided Geometric Design (2007).

“Discrete Quadratic Curvature Energies,” M. Bergou, M. Wardetzky, D. Harmon, D. Zorin, and E. Grinspun, Discrete Differential Geometry: An Applied Introduction, SIGGRAPH course notes (2006).

“A Quadratic Bending Model for Inextensible Surfaces,” M. Bergou, M. Wardetzky, D. Harmon, D. Zorin, and E. Grinspun, Symposium on Geometry Processing (2006).

PROFESSIONAL EXPERIENCE **Reviewer**

- SIGGRAPH 2007-2009
- SIGGRAPH Asia 2009
- Transactions on Vision and Computer Graphics (TVGC) 2009
- Medical Image Analysis (MEDIA) 2009
- Symposium on Computer Animation (SCA) 2006, 2009
- Symposium on Geometry Processing (SGP) 2006

Researcher, Carnegie Mellon University Summer 2004

- Part of ALADDIN’s REU program (<http://www.aladdin.cs.cmu.edu/reu/>)
- Worked with Professor Gary Miller on simulation of blood cell flow

TEACHING EXPERIENCE **Lecturer**, Columbia University Spring 2009

- Primary lecturer for COMS4167 Physically Based Computer Animation
- Designed and taught the course, including lectures, assignments, and exams
- Co-lecturer D. Harmon

Guest lecturer, Columbia University Spring 2006

- COMS3202 Discrete Mathematics

Teaching Assistant, Carnegie Mellon University

Fall 2003 – Spring 2005

- 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

“Student granted Intel Fellowship for graphics.” T. P. Wood, Columbia Spectator.
<http://www.columbiaspectator.com/2009/11/20/student-granted-intel-fellowship-graphics>