

Donald Sheehy

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Personal

Born on November 11, 1982.

United States Citizen.

Education

B.S.E. Computer Science, Princeton University, *Summa Cum Laude*, 2005.

Ph.D. Candidate Computer Science, Carnegie Mellon University, 2010 (expected).

Employment

Google (Mountain View, CA), Software Engineering Intern, Summer 2007.

Google (Pittsburgh, PA), Software Engineering Intern, Summer 2008.

Carnegie Mellon University, Graduate Student, 2005–present.

Princeton University, Teaching Assistant, 2002–2005.

New Media Center, Princeton University, 2004–2005.

Williams College, Math Researcher (REU), Summer 2004.

Teaching

Teacher, CMU, 2010

Computational Geometry

Teaching Assistant, CMU, 2008

Graduate Algorithms

Teaching Assistant, CMU, 2007

Modern Computer Algebra

Lab Teaching Assistant, Princeton, 2002–2005

Intro CS, Data Structures and Algorithms, Intro to Programming Systems, Computers in our World

Publications

Journal Articles

Gary L. Miller and Donald R. Sheehy.

Approximate Centerpoints with Proofs.

Computational Geometry: Theory and Applications, (to appear).

Jeff Danciger and Satyan Devadoss and John Mugno and Donald R. Sheehy and Rachel Ward

Shape Deformation in Continuous Map Generalization.

Geoinformatica, 13:2, 203–221, 2009.

Jeff Danciger, Satyan Devadoss, and Donald R. Sheehy.

Compatible Triangulations and Point Partitions by Series Triangular Graphs.

Computational Geometry: Theory and Applications, 34, 195–202, 2006.

Proceedings

Benoît Hudson, Steve Y. Oudot, Gary L. Miller, and Donald R. Sheehy.

Topological Inference via Meshing.

SOCG 2010

Gary L. Miller, Todd Phillips, and Donald R. Sheehy.

The Centervortex Theorem for Wedge Depth.

CCCG 2009

Gary L. Miller and Donald R. Sheehy.

Approximate Centerpoints with Proofs.

SOCG 2009

Benoît Hudson, Gary L. Miller, Todd Phillips, and Donald R. Sheehy.

Size Complexity of Volume Meshes vs. Surface Meshes.

SODA 2009

John Derryberry, Daniel D. Sleator, Donald Sheehy, and Maverick Woo.

Achieving Spatial Adaptivity while Finding Approximate Nearest Neighbors.

CCCG 2008

Gary L. Miller, Todd Phillips, and Donald R. Sheehy.

Linear-size meshes.

CCCG 2008.

Gary L. Miller, Todd Phillips, and Donald R. Sheehy.

Size Competitive Meshing without Large Angles.

ICALP 2007.

Workshops

Gary L. Miller, Todd Phillips, and Donald R. Sheehy.

Approximating Voronoi Diagrams with Voronoi Diagrams.

The Fall Workshop in Computational Geometry 2009.

Gary L. Miller, Todd Phillips, and Donald R. Sheehy.

Fast sizing calculations for meshing.

The Fall Workshop in Computational Geometry 2008.

Service

Graduate Admissions Committee

Organized Low-Dimensional Manifolds Reading Group
(<http://www.cs.cmu.edu/~manifolds>)

Immigration Course Student Coordinator

Selected Talks

The Centervortex Theorem for Wedge Depth

Presented at the Canadian Conference on Computational Geometry, 2009, in Vancouver

Approximate Centerpoints with Proofs

Presented at the Symposium on Computational Geometry, 2009, in Aarhus, Denmark.

Planar Graphs in $2\frac{1}{2}$ Dimensions

Presented at Theory Lunch, Carnegie Mellon University, March 18, 2009

Linear-size meshes

Presented at the Canadian Conference on Computational Geometry, 2008, in Montreal

Achieving Spatial Adaptivity while Finding Approximate Nearest Neighbors

Presented at the Canadian Conference on Computational Geometry, 2008, in Montreal

Cone Depth and the Center Vertex Theorem

Presented at The Fall Workshop in Computational Geometry, October 31, 2008"

Searching for the Center

Presented at Theory Lunch, Carnegie Mellon University, October 8, 2008

A Competitive Algorithm for No-Large-Angle Triangulation

Presented at Theory Lunch, Carnegie Mellon University, May 2, 2007

Flips in Computational Geometry

Presented at Theory Lunch, Carnegie Mellon University, Nov. 15, 2006