

# Don Sheehy

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## 1 Education

- Princeton University, Bachelor of Science in Engineering, Summa Cum Laude, 2005
- Carnegie Mellon University, PhD Candidate. Advised by Gary Miller. 2005-present

## 2 Positions Held

- **Graduate Research Assistant**, *Carnegie Mellon University*, 2005-present
- **Database Developer**, *Sheehy Real Estate Services LLC*, Summer 2005.
- **Media Consultant**, *New Media Center, Princeton University*, 2004-2005.
- **Math Researcher**, *Williams College*, Summer 2004
- **Residential Computing Consultant**, *Office of Information Technology, Princeton University*, 2002-2003
- **Assistant Software Engineer**, *Mixed Signals Technology*, Summer 2001

## 3 Teaching/Advising

### 3.1 Princeton University

- Lab TA - Computers in Our World, General Computer Science, Intro to Programming Systems, and Algorithms and Data Structures, 2002-2005
- Advisor for incoming Engineering Students 2003-2005

### 3.2 Carnegie Mellon University

- TA - 15-355 Modern Computer Algebra, Fall 2006
- TA - 15-750 Graduate Algorithms, Spring 2007

## 4 Research Interests

- Computational Geometry: Meshing and Triangulation, combinatorial structures in triangulation (in  $n$  dimensions)
- Machine Learning: geometric methods for feature selection and related problems
- Algebraic, Topological, and Spectral Methods in Computer Science

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## 5 Publications

- G. Miller, T. Phillips, and D. Sheehy. Size Competitive Meshing without Large Angles. *Submitted*
- J. Danciger, S. Devadoss, and D. Sheehy. Compatible Triangulation and Point Partition by Series-Triangular Graphs. *Computational Geometry: Theory and Applications*. 34 (2006) pp. 195-202.
- J. Danciger, S. Devadoss, J. Mugno, D. Sheehy, and R. Ward. A Homotopic Approach to Cartographic Generalizations. Preprint available at [www.cs.cmu.edu/~dsheehy](http://www.cs.cmu.edu/~dsheehy).
- D Sheehy. The Complexity of Domino Tiling Problems. Senior Independent Research. Princeton University. 2005. (Advised by Kevin Wayne)

## 6 Talks

- Flips in Computational Geometry, CMU Theory Lunch, Fall 2006.
- The Maxwell-Cremona Correspondence, Guest Lecture, CMU 15-852: Computational Geometry, Fall 2006.

## 7 Service and Activities

- CMU Theory Lunch Coordinator
- CMU Immigration Course Student Coordinator
- Webmaster for the CMU Algorithms and Complexity Group

## 8 Skills

- Algorithm Design and Analysis
- Programming: C/C++, Java, VB, Matlab, Mathematica, HTML/CSS, MySQL/PHP, etc. (able to learn new languages quickly)
- Operating Systems: MS Windows, Mac, Unix, Linux (some administration)
- Database Development: MS Access, Filemaker Pro, MySQL
- Interface Design
- Graphic Design
- Technical Writing

## 9 Interests

- Juggling
- Basketball
- Film and Video History/Theory/Production

References available upon request