

Marc Glisse
26, rue de Bapaume
94120 Fontenay sous Bois
FRANCE

Birthdate: 03/13/81
Nationality: French

E-mail: marc.glisse@normalesup.org
URL: <http://www.loria.fr/~glisse/>

Education and Awards

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| 2009 | Postdoctoral research
University of California Davis |
| 2007–2008 | Postdoctoral research
Persistent homology
gipsa-lab, CNRS (Grenoble, France) |
| 2003–2007 | PhD in computer science
Combinatorics of Lines and Segments in 3D
LORIA (Nancy, France)
Defended on 29 October 2007
Directors : H. Everett, S. Lazard
Reviewers : H. Alt, M. Pocchiola
Other members of the jury : R. Seidel, P. Zimmermann |
| 2000–2003 | MMFAI (Magistère of Mathematics and Computer Science)
École Normale Supérieure - Paris VI
DEA (Master 2 nd year) in algorithms
Maîtrise (Master 1 st year) in Computer Science
Maîtrise in Mathematics
Licence (Bachelor) in Computer Science
Licence in Mathematics |
| 2000 | Admission to Ecole Normale Supérieure de Paris rank: 1 |
| 1998 | International Mathematical Olympiads |
| 1998 | Concours général (French olympiads)
First prize in mathematics
Sixth prize in physics |

Internships

Oct–November 2006	Farthest-polygon Voronoi diagram with Otfried Cheong (Kaist, Corée)
April–June 2005	Visibility in an environment of random spheres with Helmut Alt (FU Berlin)
March–July 2003	On the theoretical complexity of the silhouette of polyhedra with Sylvain Lazard (INRIA Lorraine)
January–August 2002	Computing an optimal octree decomposition of space for ray shooting with Hervé Brönnimann (Polytechnic University, New York)
June–August 2001	Realistic rendering of ageing surfaces with Georges Drettakis (INRIA Sophia-Antipolis)
April–June 2001	Supercorrespondence bosons-fermions with Marc Rosso (ENS)

Pedagogical activities

Training at CIES Lorraine (learning how to teach)

Teaching at École Nationale Supérieure des Mines de Nancy (engineering school)

- Initiation to Java programming (L3 level): five semesters of practical sessions (about 26h per semester).
- Introduction seminar (practical sessions): three times about 15 hours.
- Accompanying students for a study trip.

Miscellany

- Grader for an algorithms course at Polytechnic University (New York).

Publications

Articles in Refereed Journals

- J. Demouth, O. Devillers, M. Glisse and X. Goaoc. Helly-type theorems for approximate covering. *Discrete and Computational Geometry*, volume 42, issue 3, pages 379–398, 2009 (Special issue of invited papers from the 24th Annual ACM Symposium on Computational Geometry (SCG'08)).
- J. Demouth, O. Devillers, H. Everett, M. Glisse, S. Lazard and R. Seidel. On the complexity of Umbra and Penumbra. *Computational Geometry: Theory and Applications*, volume 42, issue 8, pages 758–771, 2009 (Special issue of invited papers from the 23rd European Workshop on Computational Geometry, 2007).
- M. Glisse and S. Lazard. An Upper Bound on the Average Size of Silhouettes. *Discrete and Computational Geometry*, volume 40, issue 2, pages 241–257, 2008.
- H. Brönnimann, O. Devillers, V. Dujmovic, H. Everett, M. Glisse, X. Goaoc, S. Lazard, H.-S. Na and S. Whitesides. On the Number of Maximal Free Line Segments Tangent to Arbitrary Three-dimensional Convex Polyhedra. *SIAM Journal on Computing*, volume 37, issue 2, pages 522–551, 2007.
- H. Brönnimann and M. Glisse. Octrees with near optimal cost for ray-shooting. *Computational Geometry: Theory and Applications*, volume 34, issue 3, pages 182–194, 2006.

Publications in Refereed Conferences

- F. Chazal, D. Cohen-Steiner, M. Glisse, L. Guibas and S. Oudot. Proximity of Persistence Modules and their Diagrams. *25th Annual ACM Symposium on Computational Geometry (SCG'09)*, pages 237–246.
- J. Demouth, O. Devillers, M. Glisse and X. Goaoc. Helly-type theorems for approximate covering. *24th Annual ACM Symposium on Computational Geometry (SCG'08)*, pages 120–128.
- O. Devillers, M. Glisse and S. Lazard. Predicates for line transversals to lines and line segments in three-dimensional space. *24th Annual ACM Symposium on Computational Geometry (SCG'08)*, pages 174–181.
- O. Cheong, H. Everett, M. Glisse, J. Gudmundsson, S. Hornus, S. Lazard, M. Lee and H.-S. Na. Farthest-Polygon Voronoi Diagrams. *15th Annual European Symposium on Algorithms (ESA'07)*, pages 407–418.
- J. Demouth, O. Devillers, H. Everett, M. Glisse, S. Lazard and R. Seidel. Between Umbra and Penumbra. *23rd Annual ACM Symposium on Computational Geometry (SCG'07)*, pages 265–274.
- M. Glisse. An Upper Bound on the Average Size of Silhouettes. *22nd Annual ACM Symposium on Computational Geometry (SCG'06)*, pages 105–111.
- H. Brönnimann, O. Devillers, V. Dujmovic, H. Everett, M. Glisse, X. Goaoc, S. Lazard, H.-S. Na and S. Whitesides. The Number of Lines Tangent to Arbitrary Polytopes in \mathbb{R}^3 . *20th Annual ACM Symposium on Computational Geometry (SCG'04)*, pages 46–55.
- H. Brönnimann and M. Glisse. Cost Optimal Trees for Ray Shooting. *6th Latin American Symposium on Theoretical Informatics (LATIN'04)*, pages 349–358.

Manuscripts

- M. Glisse and S. Lazard. On the complexity of the sets of free lines and free line segments among balls in three dimensions.
- D. Attali, M. Glisse, S. Hornus, F. Lazarus and D. Morozov. Persistence-sensitive simplification of functions on surfaces in linear time.