

Daniel Gulotta  
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## Education

Massachusetts Institute of Technology, Cambridge, MA  
Degree Expected: SB in Physics and Mathematics, May 2007  
GPA: 4.8/5.0

## Courses

6.828 Operating System Engineering  
6.854J/18.415J Advanced Algorithms  
Phys 287a Introduction to String Theory  
Phys 287b Topics in String Theory  
18.726 Algebraic Geometry  
Math 251a Algebraic Number Theory

## Work Experience

7/2006-9/2006 MIT Department of Mathematics  
Researched mass formulas for local fields.

11/2004-5/2006 MIT Educational Studies Program  
Taught mathematics and physics to high school students.

5/2005-7/2005 MIT Department of Physics  
Researched combinatorial aspects of quiver gauge theories.

6/2004-8/2004 Digital Word Corporation  
Researched lensless digital imaging systems.

## Publications

Kiran Kedlaya (with an appendix by Daniel Gulotta), “Mass formulas for local Galois representations (after Serre, Bhargava)”, arXiv:math.NT/0511135.

Dan Gulotta, Daniel M. Kane, and Andrew Spann, “Application of Min-Cost Flow to Airline Accessibility Services”, *UMAP Journal* **27** (2006).

Dan Gulotta, Daniel M. Kane, and Andrew Spann, “Lane Changes and Close Following: Troublesome Tollbooth Traffic”, *UMAP Journal* **26** (2005), pp. 251-264.

## Awards

2007 MIT BattleCode Competition Finalist  
2005, 2006 Mathematical Contest in Modeling Outstanding  
2004 William Lowell Putnam Competition Top 26  
2004 BAUPC Fourth Place  
2003 International Physics Olympiad Gold Medal and Best Theory

## References

Available upon request.