MEGUMI ANDO

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229 Vassar Street
Cambridge, MA 02139
Home Phone (617) 452-2148

EDUCATION

2000-2004	Anticipated B.S., Massachusetts Institute of Technology
1996-2000	Belmont High School

RESEARCH & Work

2003 — Grader, Theory of Computation (MIT)
Grading biweekly problem sets for graduate level course on computability theory and complexity theory. Topics include: regular and context-free languages, decidability, time and space complexity, probabilistic algorithms, and interactive proof systems.

2002-2003 — Research Assistant, Design Laboratory (MIT)
Researching geometric modeling with applications in Computer-Aided Design and Manufacturing. Past project: Determining the optimal method for estimating normal vectors on polyhedral surfaces from eight proposed methods. Current project: Determining conditions for compact, rectifiable boxes to be homeomorphic to an arbitrary curve in Euclidian space.

2002-2003 — Research Assistant, Laboratory for Computer Science (MIT)
Researching computational complexity of number theoretic problems and existing public key cryposystems. Proving reductions to and from the i integer factorization problem and the RSA problem.

2001-2002 — Research Assistant, Aesthetic + Computation Group (MIT)
Researching computational media design. Projects on typography, graphic design, and hardware/ software interface for graphical tools.

RELEVANT COURSES

MATHEMATICS — Multivariable Calculus with Theory, Differential Equations, Introduction to Probability and Statistics, Linear Algebra with Theory, Analysis I, Analysis II, Principles of Applied Mathematics

COMPUTER SCIENCE — Structure and Interpretation of Computer Programs, Artificial Intelligence, Mathematics for Computer Science, Introduction to Algorithms, Introduction to the Theory of Computation, Advanced Complexity Theory, Network and Computer Security

COMPUTER SOFTWARE — *Adobe* Illustrator and Photoshop, *Microsoft* Excel, Word, and Powerpoint, *LATEX, Maple, Matlab*

COMPUTER SKILLS — Fluency in C, Scheme/ LISP, BASIC, HTML

LANGUAGES — Fluency in English, Japanese; Studied French, Spanish