Anders Kaseorg
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Education

- **Massachusetts Institute of Technology** **2004–present**
  S.B. student in Mathematics with Computer Science. GPA 4.9/5.0.
  Coursework:
  - *Mathematics:* Complex Analysis; Differential Geometry; Topology; Algebraic Topology I; Algebra I, II; Commutative Algebra; Mathematical Logic; Mathematical Problem Solving
  - *CS theory:* Algorithms; Randomized Algorithms; Advanced Algorithms; Advanced Data Structures; Theory of Computation; Cryptography; Cryptographic Game Theory
  - *CS systems:* Computer Programs; Advanced Symbolic Programming; Programming Languages; Parallelism in Languages and Compilers; Computation Structures; Artificial Intelligence; Security; Distributed Systems; Operating System Engineering

Awards

- Putnam Competition top fifteen (2006)
- Maslab robotics competition first place team (2005)
- MIT ACM individual programming contest first place (2004)
- International Olympiad in Informatics silver medal (2003), gold medal (2004)
- Intel Science Talent Search semifinalist (2004)
- Siemens Westinghouse Competition semifinalist (2004)
- USA Computing Olympiad first place in 3 of 5 contests (2004)
- Davidson Fellows award (2003)
- International Mathematical Olympiad silver medal (2002), gold medal (2003)

Teaching Experience

- **Mathematical Olympiad Summer Program grader** **2005, 2006**
  Graded tests and taught classes for the Olympiad team and future team competitors.

- **AwesomeMath Summer Program mentor** **2006**
  Instructed and supervised mathematically gifted 7–11 grade students at summer camp geared toward Olympiad preparation.

- **Maslab robotics competition TA** **2006, 2007**
  Helped to organize and TA a vision-based autonomous robotics course run by volunteer students; also managed all course software and the course website.

Research Experience

- **Clay Mathematics Research Academy junior fellow** **2003, 2004**
  Proved a theorem about embeddings of finite metric spaces (2003). Found the first constructive proof for a combinatorial identity whose only previously known proofs are nonconstructive (2004).

- **Independent game theory research** **2003**
  Created a framework for studying a generalized class of combinatorial games, and characterized all impartial games in this class.

- **Undergraduate research, MIT** **2005, 2007**
  Worked on a clustering search engine (summer 2005), a new processor architecture (summer 2007), and an open-source software distribution for cell phones (fall 2007).

Activities

- **Student Information Processing Board member** **2006–present**
  SIPB provides volunteer computing services and support to the MIT community.

  - *SIPB Secretary* *2007–present*
    Took meeting minutes in the standard UTF-8 character encoding to encourage its adoption among the minutes' 200+ recipients.
  - *Debathena co-creator* *2006–present*
    Created a modular package repository that brings MIT Athena workstation software and configuration to existing Debian and Ubuntu systems; used by hundreds of students, and the new introductory CS course lab machines; will become the base for the next Athena release in 2008.
  - *linerva.mit.edu dialup co-maintainer* *2006–present*
    Maintained a Debathena-based public Linux dialup server with over 500 users.

- *scripts.mit.edu co-maintainer, architect* *2006–present*
  Maintained, supported, and developed a secure service for serving dynamic websites from Athena AFS directories, with content hosted by over 1800 users and groups.

- **Harvard-MIT Mathematics Tournament** **2005–present**
  Helped run a yearly mathematics contest for 700+ high school students; wrote and test-solved problems; graded tests. Ran the HMMT website and directed contest scorekeeping (2007).

- **Random Hall MIT Mystery Hunt team co-organizer** **2006–present**
  Organized a 50-person team for a competitive 48-hour puzzle hunt in January; maintained and extended our custom collaboration software and automated puzzle tools.