- Thesis   Jan '05 - June '07

  Devised algorithms with improved time complexities for the following problems in the plane:

    (i) computing an optimal Euclidean shortest path [1] [slides]
          ← this work attempts to address Problem 21 of The Open Problems Project,

   (ii) computing an optimal L_1 shortest path [2], and

  (iii) answering visibility polygon queries [3].

  [Advisor: Prof. Sanjiv Kapoor]

- Coursework   GPA 3.93/4.0   '04

  Design and Analysis of Algorithms, Theory of Computation, Combinatorial Optimization, Approximation
  Algorithms, Algorithms for Wireless Networks, Science of Programming, Distributed Computing.

  M.S.   GPA 3.96/4.0   Jan '99 - Aug '01

  Algorithms, Formal Languages, Computational Geometry, Design of Programming Languages, Compiler
  Construction, Computer Graphics, Scientific Visualization, Parallel Computing, Computer Networks,
  Topics in Algorithms [slides]. Prereqs: Discrete Mathematics, Computer Organization, Operating Sys-
  tems, Introduction to Algorithms.

- Courses assisted as a TA

  Discrete Mathematics, Introduction to Algorithms, Design and Analysis of Algorithms, Theory of Com-
  putation.

- The slide set used in the oral part of comprehensive exam is here.