# Ozan Hafızoğulları

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## Research Interests

Compilers, Programming Languages, Software Engineering, Automated and interactive tools for reasoning about computer systems

## Education

- **Cornell University**, Ph.D. student in Computer Science (1994-present)
- **Cornell University**, M.S. in Computer Science (1998)
- **Middle East Technical University** (1989-1994)
  - B.Eng in Electrical-Electronics Engineering
  - B.S. in Mathematics

## Honors, Awards and Achievements

- 1994, B.Eng. Thesis: "Implementation of an Imperative Programming Language Using its Denotational Semantics"
- 1993, Project for "Introduction to Control Theory": "Design of a Compensator Using $H^\infty$ methods". Design was accomplished using an upper graduate level book on the subject.
- 1991, Full Scholarship to attend the NATO Advanced Study Institute's Marktoberdorf Summer School on "Logic and Algebra of Specification"
- 1988, Third Prize in the International Mathematics Olympiad held in Canberra, Australia. Obtained the highest score in the Turkish team.
- 1988, First Prize in the Turkish Mathematics Competition organized by the Science and Technology Foundation of Turkey, TŰBİTAK
- 1987, Member of the Turkish Team for the 1987 International Mathematics Olympiad held in Havana, Cuba
- 1987, Second Prize in the Turkish Mathematics Competition organized by TŰBİTAK

- 1987, Second Prize in the Turkish Physics Competition organized by TŰBİTAK

- 1985, First Prize in the Turkish Mathematics Competition among Junior High School Students organized by TŰBİTAK

### Work Experience

- Teaching assistant for the courses "Compilers", "Numerical Analysis", "Logic and Discrete Mathematics for Computer Science", "Fundamental Concepts of Computer Science". Held recitations, helped in writing and grading problem sets and exams.

- 1991, Assistant instructor at two preparation camps for the International Mathematics Olympiad, held in Turkey, organized by TŰBİTAK. Held recitations, provided mentorship.

## Courses

Advanced Programming Languages, Analysis of Algorithms, Concurrent Programming, Theory of Computing, Matrix Computations, Introduction to Automated Reasoning, Operating Systems, Microprocessors, Data Structures, Digital Design.

Signal Processing, Digital Signal Processing, Control Theory, Non-linear Control Theory, Digital Control, Process Control I,II, Analogue Electronics, Digital Electronics, Engineering Economics, Electromagnetics I,II,III.

Analysis I,II, Algebra I,II,III, Topology, Differential Geometry.

### Languages

Turkish (native language), fluent in English and German. passed the "Advanced Level Examination" of the Goethe Institute.

### Other

Starting 1988 fall, I spent one year as an exchange student in Kulmbach, Germany. I stayed with a German family and took 12th grade courses in the local Gymnasium.