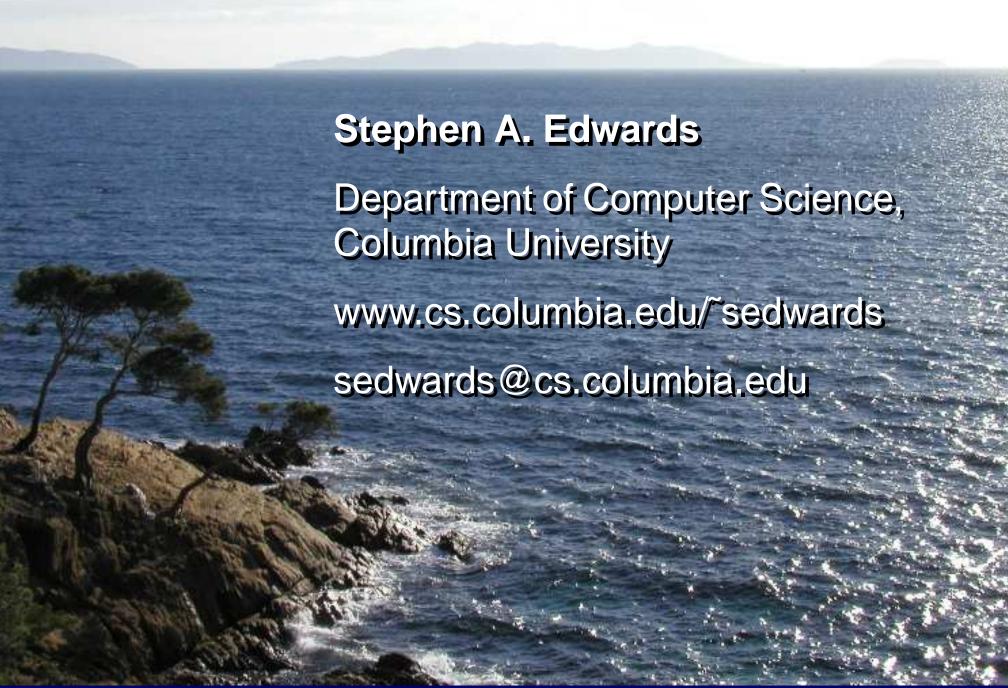
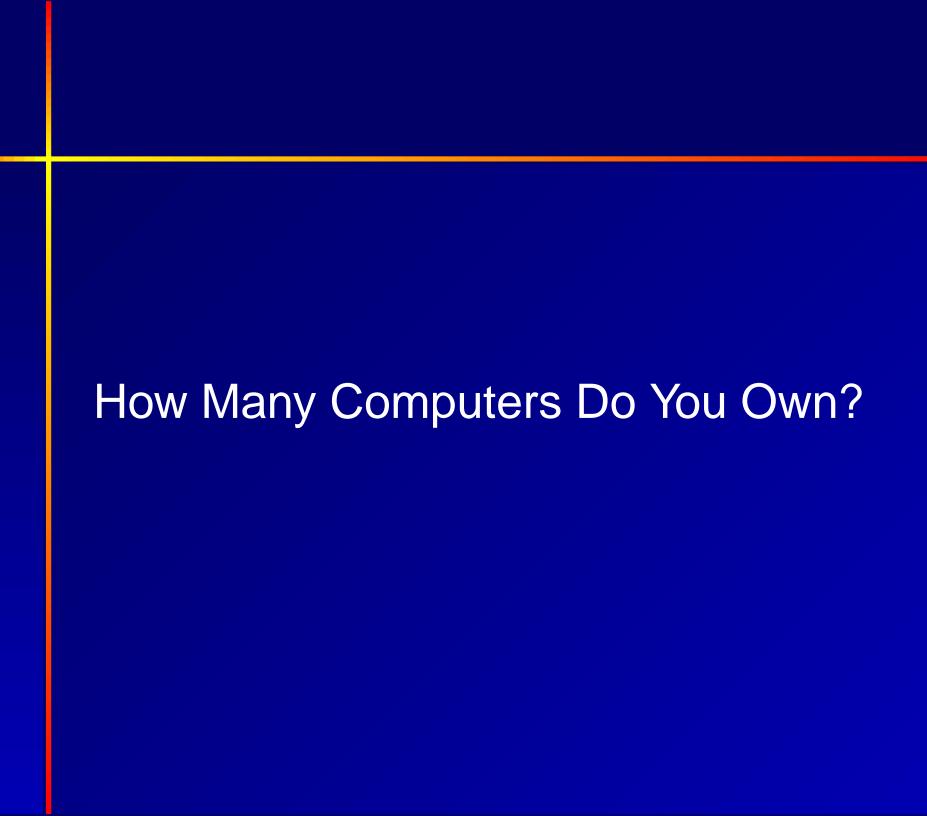
The Computer Science Major





You're wrong.

Computers' Changing Role





ENIAC, 1946

Environment and humans subservient to computer

BMW 745i, 2002

Computers subservient to humans and the environment

What is Computer Science About?



What is Computer Science About?

Software and systems

Hardware and architecture

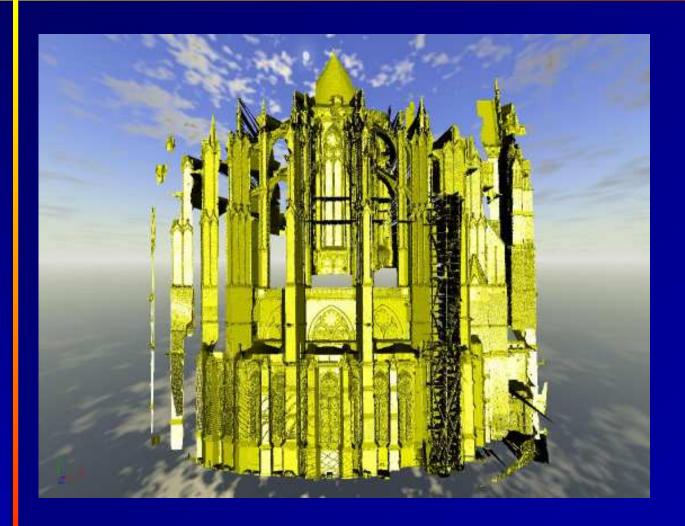
Theory

Artificial Intelligence

User Interfaces

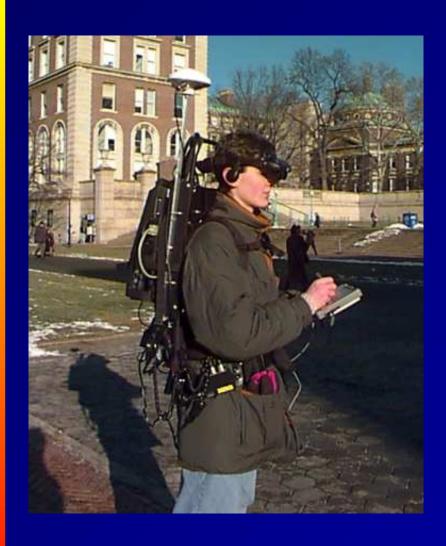
Multimedia

CS Research at Columbia



Model of the Cathedral of St. Pierre, Beauvais, France.

CS Research at Columbia









Mobile Augmented Reality on the Columbia Campus

CS Research at Columbia



Omnidirectional camera for videoconferencing

Other Topics at Columbia

Security (Keromytis)

Embedded systems (Edwards)

Networking (Misra, Yemini, Schulzrinne)

Databases (Ross)

Internet search (Gravano)

Multimedia: vision (Nayar, Kender)

What's the Major Like?

10 required core courses

+

One track:

Systems · Theory

Intelligent systems · General CS



Technical Electives

The Core

COMS W1007: Intro to computer science

COMS W3137: Data structures and algorithms

COMS W3203: Discrete math

COMS W3210: Scientific computation I

COMS W3824: Computer organization

COMS W3157: Advanced Programming

COMS W3251: Scientific computation II

COMS W3261: Computability

COMS W4701: Artificial intelligence

COMS W4115: Programming Langauges and Translators

Now What?

Our website: http://www.cs.columbia.edu

Freshman/Sophomore advisors

The Bulletin

Fellow Students:

- TAs
- Upperclassmen
- ACM student chapter

