become a computer scientist

have global impact
en ensuring that computing knows no boundaries
cs defined

▲ What computer science isn’t
- sitting in front of a computer all day
- reclusive field with little or no human contact
- useless research that only matters to other researchers

▲ What computer science is
- a dynamic, growing field with opportunities in a lab, in an office, in a hospital, in a courtroom
- an opportunity to use many different types of skills to improve the lives of normal people
- A chance to have an impact on the design and use of cutting-edge technology
traditional cs careers

▲ teachers
▲ programmers
▲ systems analysts
▲ researchers

job opportunities

programmer
analyst
professor
web master
network administrator
support staff
software engineers
non-traditional cs careers

▲ library sciences
▲ medicine
▲ law enforcement
▲ media/games/art

▲ business
▲ marketing
▲ psychology
▲ security

job opportunities

search engine companies
drug design
patent attorney
movie special effects
entrepreneur
graphic designer
crisis management
career spotlight

▲ Debra Richardson: Academia

- Company: School of Information + Computer Science, UC Irvine
- Job: Dean, Researcher
- Education: Ph.D., Mathematics

job summary

Debra is the dean of computer science at UC Irvine. In addition to administrative duties, she teaches classes, works with students on research projects and is active in many community outreach programs.

other fields of study

- research areas are very broad in an academic environment, at UC Irvine faculty direct research in fields from software engineering, mathematics and bioinformatics to artificial intelligence, virtual reality, gaming and Internet technologies.
career spotlight

▲ Sandy Irani: Academia

- Company: School of Information + Computer Science, UC Irvine
- Job: Professor, Researcher
- Education: Ph.D., Computer Science

job summary

Sandy teaches undergraduate / graduate classes in computer science while managing a busy research schedule and being heavily involved in community outreach programs.

other fields of study

- research areas are very broad in an academic environment, at UC Irvine faculty direct research in fields from software engineering, mathematics and bioinformatics to artificial intelligence, virtual reality, gaming and Internet technologies.
career spotlight

▲ Martha Daniel: Technology

- Company: IMRI
- Job: Founder, CEO
- Education: Masters, Business Administration

job summary

Martha founded IMRI in 1992 as a company that works with government and Fortune 1000 companies in a variety of IT services from integrating systems to training and data security analysis.

other fields of study

- computer science, information systems, computer science engineering
career spotlight

▲ Sharon Young: Marketing
- Company: Cedars Sinai Hospital
- Job: Business Analyst
- Education: Masters, Computer Science

job summary

Sharon analyzes the needs of new software for the different departments at the hospital and selects vendors and negotiates software contracts. She also ‘sells’ the selected software to hospital supervisors, making sure it meets all of their needs.

other fields of study
- computer science combined with business and/or marketing.
career spotlight

▲ Celia Pierce: Gaming, Graphics

- Company: California Institute for Telecommunication and Information Technology, UC Irvine
- Job: Research and External Relations Manager

job summary

Celia Pearce is a game designer, artist, researcher, teacher and author of *The Interactive Book: A Guide to the Interactive Revolution* (Macmillan), as well as numerous other articles on interactive media, game design and culture.

other fields of study

- graphics, visualization, special effects
career spotlight

▲ Darya Chudova: Data Mining

- Company: UCI Data Lab
- Job: Ph.D. student
- Education: Masters, Applied Math
  Ph.D., Computer Science ('03)

job summary

Recent advances in biotechnology and DNA technologies created an enormous amount of information about the activity of the genes. Darya studies computational approaches helpful in uncovering and organizing all of the data collected.

other fields of study

- library science, machine learning, probabilistic modeling, computational biology
career spotlight

▲ Pauline T’so: Arts
- Company: Rhythm + Hues
- Job: Founder, Vice President
- Education: Bachelors, Computer Science

job summary

R&H is one of the largest visual effects and character animation studios in the entertainment industry. In 1995, R&H won an Academy Award for its work on “Babe”. Pauline applies her combined love of art with her technical insight to a broad spectrum of projects for the studio, including working on Warner Bros. “Harry Potter” and “Bedazzled” for Fox.
career spotlight

▲ Victor Liu: Security
- Company: Network Synthesis
- Job: Founder
- Education: Bachelors, ICS ('01)

job summary

Victor and classmate Adam Bonner started Network Synthesis in June 2000, a company that has developed digital security products that manage physical and information security within building and in emergency vehicles, as well as through the Internet.

other fields of study
- computer science, security, cryptography, Internet technologies

ensuring that computing knows no boundaries
Career Spotlight

Cathy Blake: Medical Informatics

- Company: UC Irvine
- Job: Researcher, Ph.D. Candidate
- Education: Masters, A.I. + Software Engineering Ph.D., ICS ('03)

Job summary

Cathy’s research explores how people integrate information from multiple sources. She has illustrated her approach by quantifying the more than 112,000 breast cancer risk factor indicators.

Other fields of study

- Library sciences, information management, data mining
career spotlight

▲ Sang Dang: Law

- Company: Alschuler, Grossman, Stein, Kahan, LLP
- Job: Patent Attorney
- Education: Bachelors, Computer Science ('86); J.D.

job summary

Sang handles legal matters involving copyright, trademark, patents, unfair competition, design, technical information, and related intellectual property rights. He assists clients with software development agreements, licensing agreements and confidentiality and trade secret protection agreements.

other fields of study

- intellectual property law, copyright
Gloria Mark: Interactive + Collaborative Technology

- Company: School of Information + Computer Science, UC Irvine
- Job: Professor, Researcher
- Education: Ph.D., Psychology

Gloria’s research concentrates on how technologies can support large-scale remote teams.

Other fields of study:
- Human-computer interaction, adaptive technologies
getting started

▲ Starting your career in cs

- CS majors do NOT need to know any programming to get into the major. UC Irvine’s School of ICS teaches all the fundamentals needed.
- Concentrate on math, science classes while still in high school
- Sharpen your written and spoken communications skills
- Explore the specialized areas of CS you find interesting
- Find a university that supports a broad CS program with strengths in your area of interests -- and APPLY.
cs at uc irvine

▲ Highlights of ICS

- UCI’s School of ICS is one of the broadest computing programs in the country
- Each of the people profiled here work in areas in which ICS specializes
- ICS is the only independent computer science school of all the University of California campuses
- U.S. News & World Report ranks ICS in the top 15 of public computer science programs the country
- ICS is ranked 4th in the country for total number of minority BS degrees awarded

have global impact

become a computer scientist
career spotlight

▲ Tim Cain: Gaming

- Company: Troika Games
- Job: Principal, Lead Programmer
- Education: Bachelor’s, ICS

job summary

Troika's principal is best known as the producer, lead programmer and designer of Fallout, Tim Cain has worked in the game industry since 1982. Spending most of his career at Interplay, Tim was lead programmer on Bard's Tale Construction Set and Rags to Riches.

other possible fields of study
- graphics, visualization, special effects