



40<sup>th</sup> ANNIVERSARY  
**COMPUTER SCIENCE**  
UNIVERSITY OF MARYLAND

# Welcome to cs@umd!

Samir Khuller



**COMPUTER SCIENCE**  
UNIVERSITY OF MARYLAND

# Past Chairs

William Atchison



1973-1974

Jack Minker



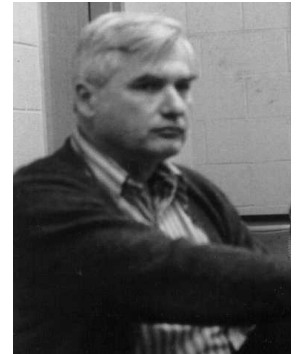
1974-1979

Raymond Yeh



1979-1981

Richard Austing



1981-1982

Vic Basili



1982-1988

Satish Tripathi



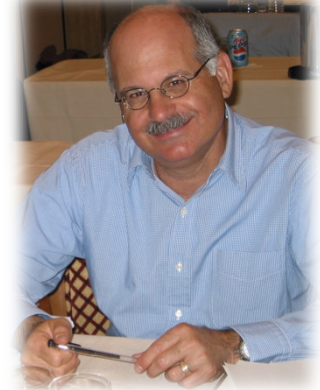
1988-1996

John Gannon



1996-1999

Larry Davis



1999-2012

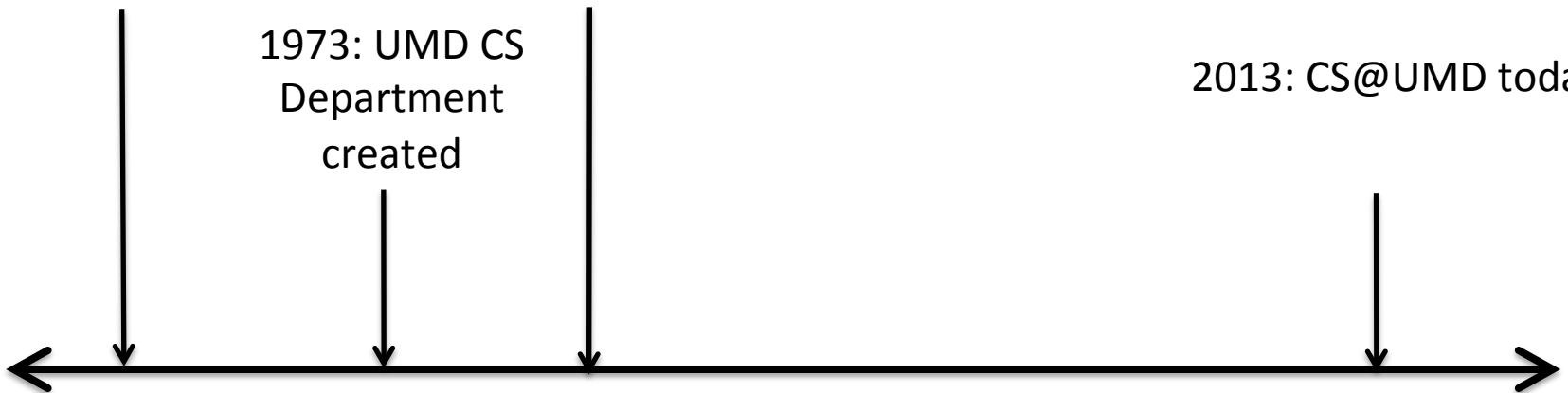
# Computing on Campus

1962: Creation  
of the Computer  
Science Center

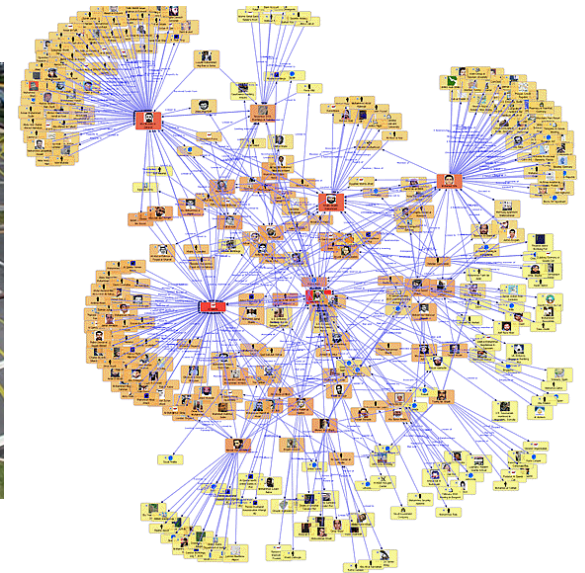
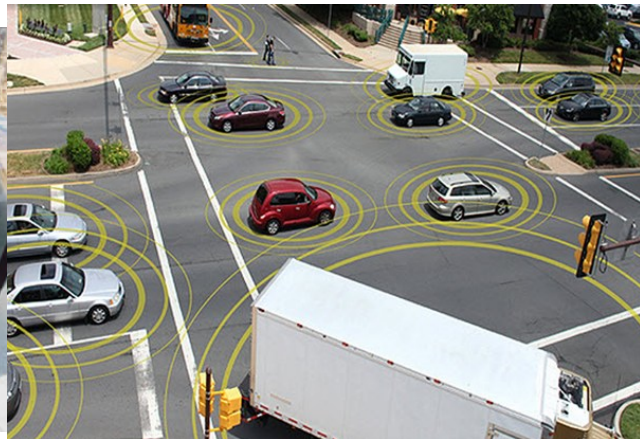
1985: UMIACS  
created

1973: UMD CS  
Department  
created

2013: CS@UMD today



# Future of Computing





# CS Faculty

- Highly accomplished faculty (awards)
- Field in constant flux, new courses being developed
- Extremely well funded research



# Alumni & Students

- 1973-2013, cs@umd graduated
  - 630+ Ph.D.'s
  - 1000+ Masters students
  - 7000+ undergraduates
- Today
  - 1400 undergraduate majors
  - 230 graduate students
- Major Awards – just this week a major Hackathon event won by the Terps!
- ACM Programming Contest (World Finals)
- Best paper awards by students
- Over 200 startups

# Announcements

- Center for Women in Computing (CS/UMIACS)
  - Jan Plane
- CS Education for Tomorrow
  - Adam Porter & Ben Bederson
- Research Centers in UMIACS
  - Amitabh Varshney

# Andrew Reisse Memorial Scholarship (BS 2001)



<http://www.reisse.net/>



# CS&UMIACS Corporate Partners



Booz | Allen | Hamilton



CyberData  
The IP Endpoint Company



OPIS  
OIL PRICE INFORMATION SERVICE



YAHOO!

# Looking ahead

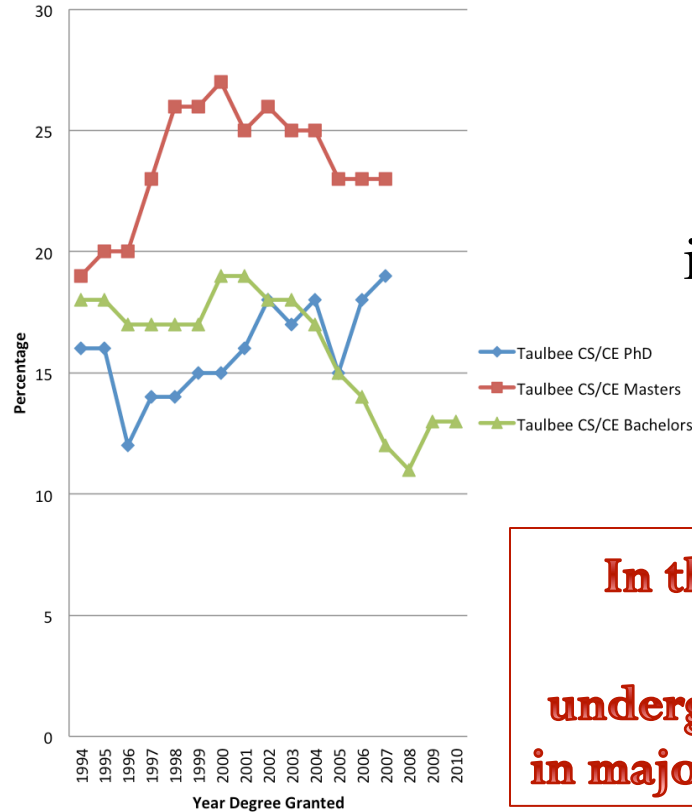


# Some of the Extraordinary Women in Computing

- In the past 7 years, 3 Turing Award winners
  - **Shafi Goldwasser** was recognized for transformative work on the foundations of cryptography
  - **Barbara Liskov's** work on programming languages and systems design was fundamental
  - **Fran Allen** laid the foundation for compilers that optimize and parallelize programs automatically
- Examples of Leaders in major technology companies
  - **Marissa Mayer** at Yahoo!
  - **Sheryl Sandberg** at Facebook
- And many others...



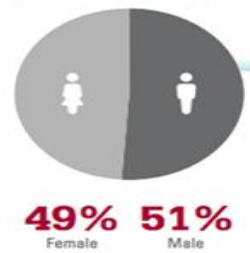
Percentage of CS Degrees Granted to Women



# Trends for Women in Computing

**In the US, 79% decline in the number of first-year undergraduate women interested in majoring in CS from 2000 to 2011**

## Calculus AB



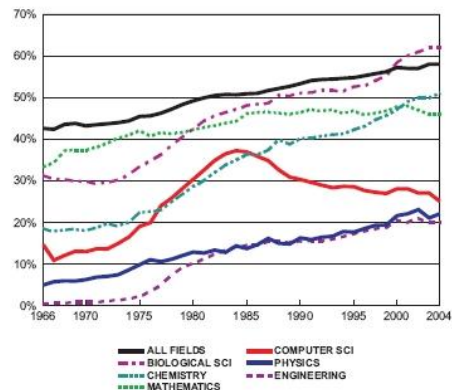
## Computer Science A



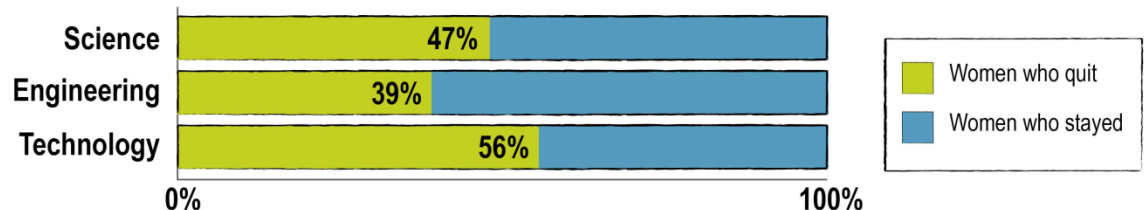
CollegeBoard

## WOMEN IN SELECTED FIELDS

Bachelor's Degrees, 1966-2004



## WOMEN'S QUIT RATES IN SCIENCE, ENGINEERING AND TECHNOLOGY, 2008



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[ncwit.org/scorecard](http://ncwit.org/scorecard)

Source: National Center for Education Statistics. Data for Academic Year 1999 were not available. Compiled by AIP Statistical Research Center.

# The Maryland Center for Women in Computing



COLLEGE OF  
COMPUTER, MATHEMATICAL,  
& NATURAL SCIENCES



**COMPUTER SCIENCE**  
UNIVERSITY OF MARYLAND

**Epic**



## UMIACS

University of Maryland  
Institute for Advanced  
Computer Studies

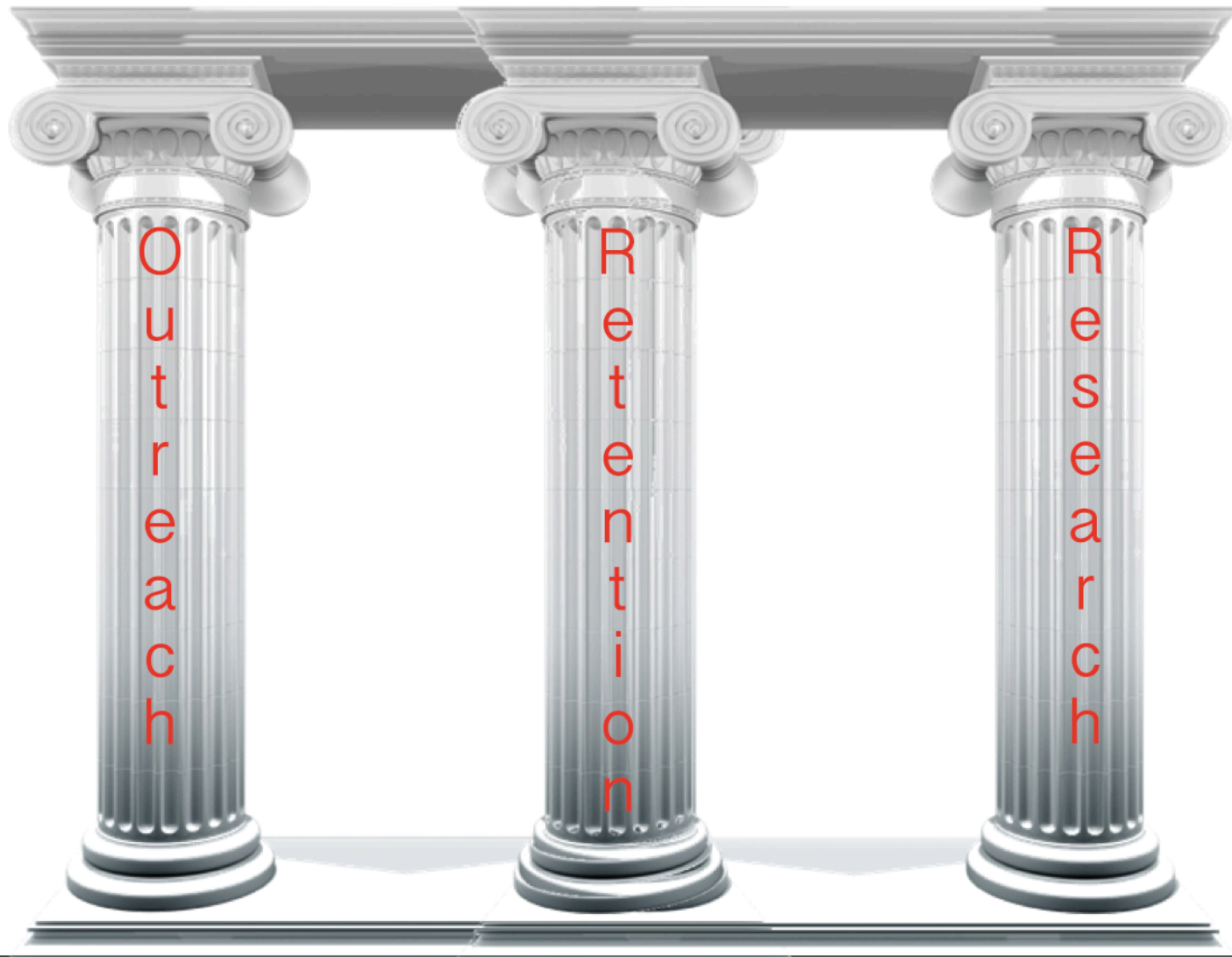
**YAHOO!**

**ManTech**  
International Corporation®





# Maryland Center for Women in Computing



# Thanks!

Ashok Agrawala (chair of the 40<sup>th</sup> Ann. Comm),  
Bobby Bhattacharjee, Mohammad Hajiaghayi,  
James Reggia, Todd Holden, Pat Ipavich,  
Savannah Renehan, Brandi Adams, Adelaide  
Findlay, Tara Burke, Elissa Redmiles, Jenny Story,  
Andrea Morris, Kelly Terrill, Stacey Locke,  
Brenda Chick, Andrew Nolan.