



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

Vic Basili



1982-1988

Jack Minker



1974-1979

Satish Tripathi



1988-1996

Raymond Yeh



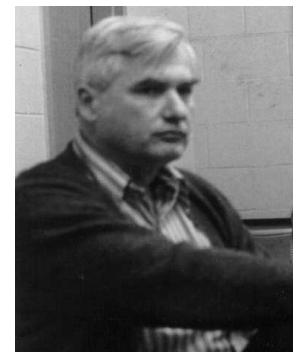
1979-1981

John Gannon



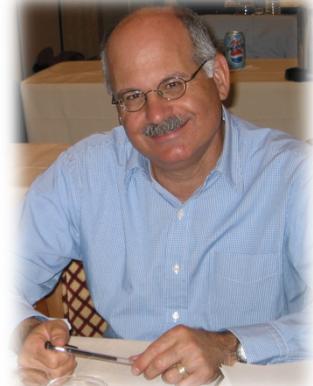
1996-1999

Richard Austing



1981-1982

Larry Davis



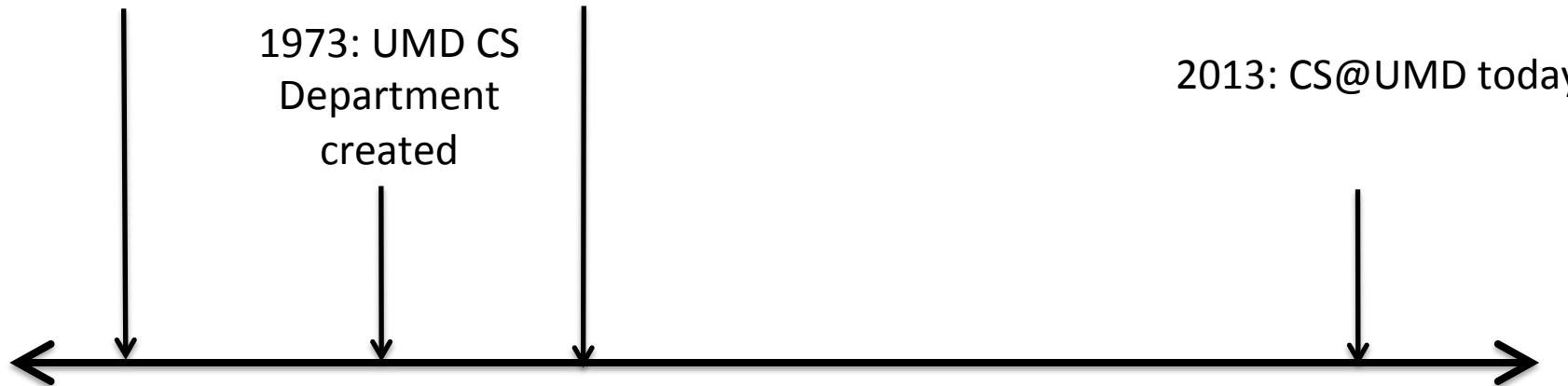
1999-2012

# Computing on Campus

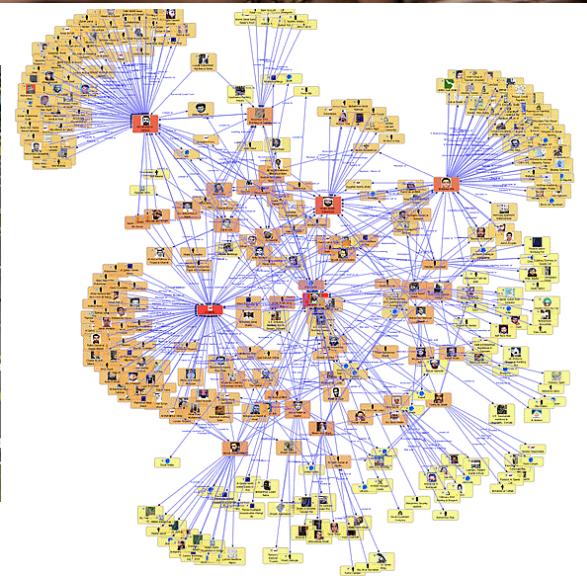
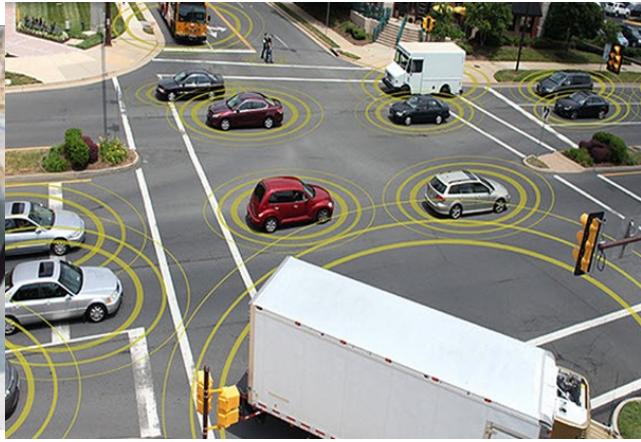
1962: Creation  
of the Computer  
Science Center

1985: UMIACS  
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



Appian

Aptify®

Booz | Allen | Hamilton



CyberData  
The IP Endpoint Company

Dante

FireEye

Google™

OPIS  
Oil Price Information Service

Palantir



TATA  
TATA CONSULTANCY SERVICES

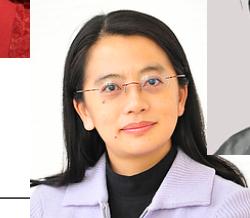
YAHOO!

# Looking ahead



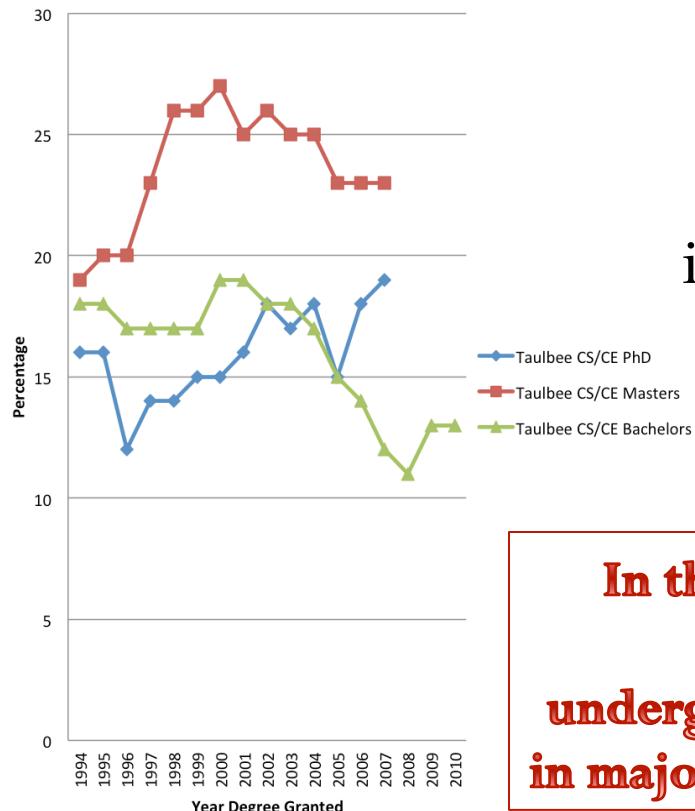
# Some of the Extraordinary Women in Computing

- 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...



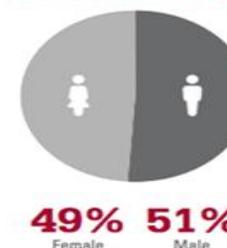
# Trends for Women in Computing

## Percentage of CS Degrees Granted to Women



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

## Calculus AB

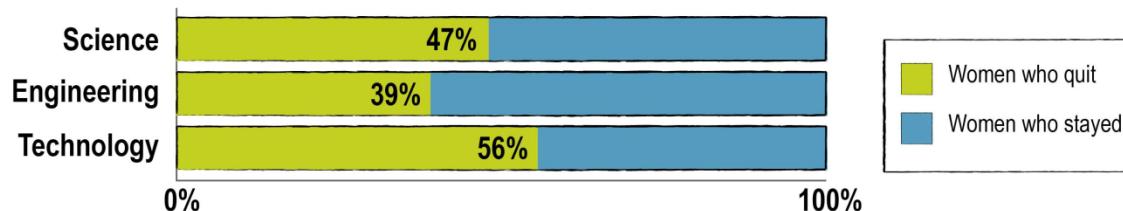


## Computer Science A



CollegeBoard

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

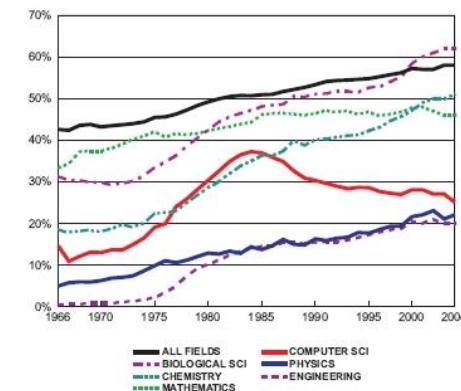


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[ncwit.org/scorecard](http://ncwit.org/scorecard)

## WOMEN IN SELECTED FIELDS

Bachelor's Degrees, 1966-2004



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

**YAHOO!**

**Epic**

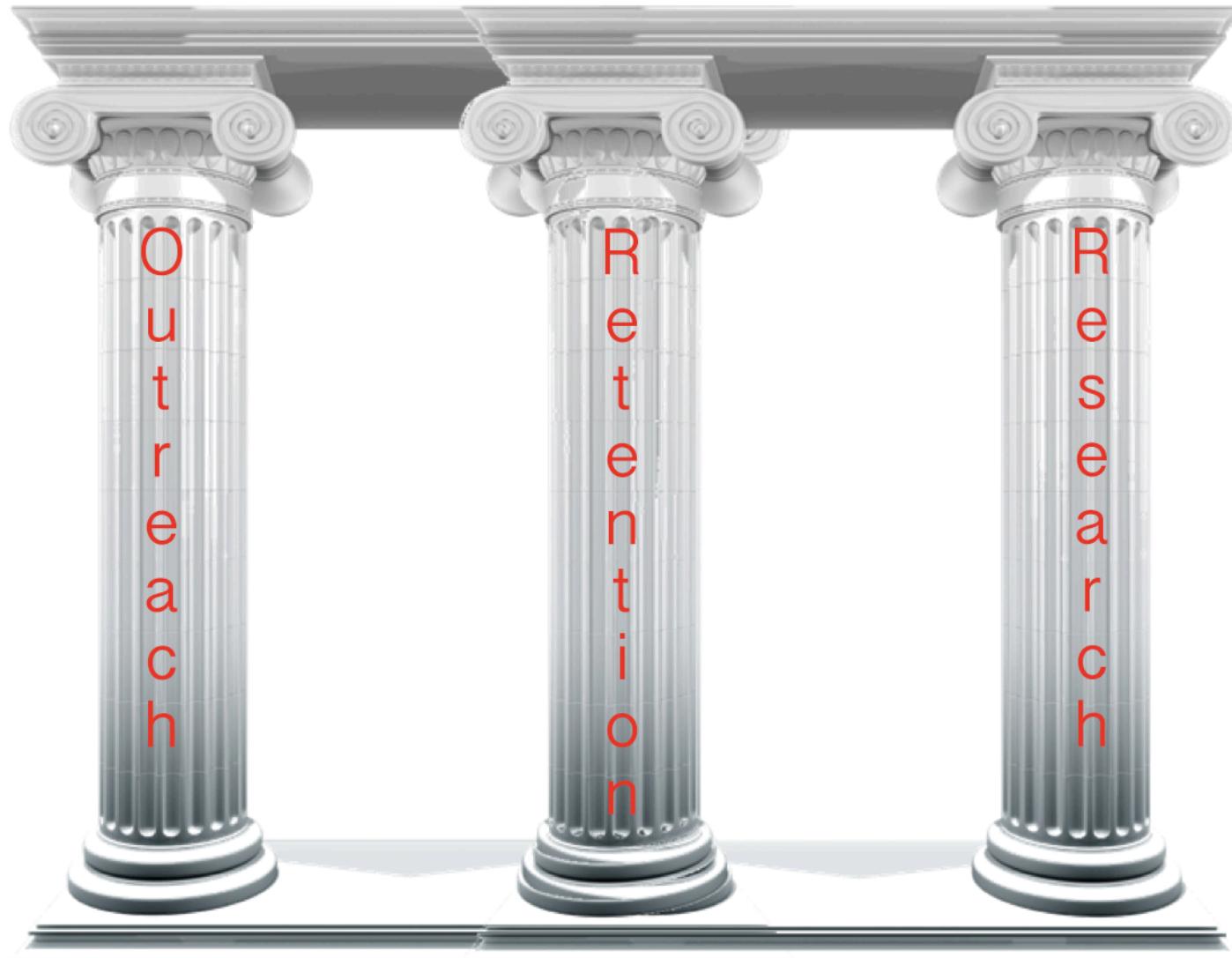
**ManTech**  
International Corporation ®



**UMIACS**  
University of Maryland  
Institute for Advanced  
Computer Studies



# Maryland Center for Women in Computing



# Thanks!

Ashok Agrawala (chair of the 40<sup>th</sup> Ann. Comm),  
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Andrea Morris, Kelly Terrill, Stacey Locke,  
Brenda Chick, Andrew Nolan.