

# History of Women in Computing and Women Leaders in Computing

## Part 2: Wikipedia Project – Pages for Notable Women in Computing



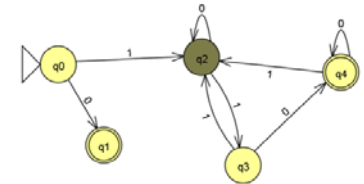
Susan Rodger  
Duke University

June 9, 2015  
Microsoft Research  
Bellevue, WA

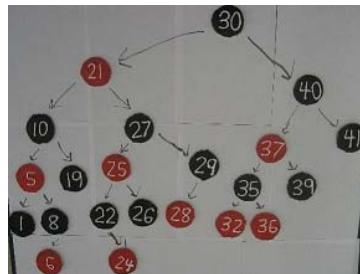
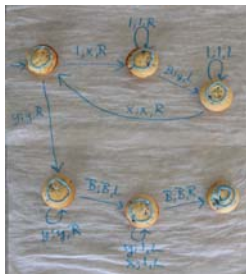


## My Background

- Professor of the Practice of Computer Science
- Area: Visualization and Animation, Computer Science Education
- Passionate about education/diversity
  - SIGCSE Chair
- CRA-W Board Member



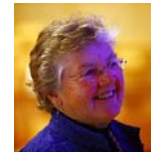
## Also known for Edible CS



- Undergraduates
  - Research – DREU, CREU
- Graduate Students
  - Graduate Cohort (years 1-3)
  - Discipline Specific Workshops
- Faculty, Government/Industry Labs
  - Career Mentoring Workshops
    - Early and Mid-Career
- Other programs/projects

# How Visible are Notable Women in Computer Science?

- Pondered this question in early 2012
- Looked at Wikipedia
  - The internet encyclopedia
  - Who writes those pages?
  - Why did some notables have pages and others not?
- Turing Award Winners
  - Only two women at that time



Fran Allen

- School teacher – got a job at IBM
- Compilers and Optimization Technology
- IBM Fellow – First Women
- Turing Award (2006) – First Woman
- The Turing Award was announced on Feb. 21, 2007
- Her Wikipedia page was created on...
  - Feb. 6, 2007
- On Feb 21, 2007 the Turing Award was added to her Wikipedia page.

## Here is that first page for Fran Allen

WIKIPEDIA The Free Encyclopedia

Article [Talk](#) [Read](#) [Edit](#) [View history](#)

## Frances E. Allen

From Wikipedia, the free encyclopedia

Fran Allen has made outstanding contributions to the field of programming languages for more than forty-five years, and her work has significantly influenced the wider computer science community.

Ms. Allen is a pioneer in the field of optimizing compilers. Her achievements include seminal work in compilers, code optimization, and parallelization. In the early 1980s, she formed the Parallel TRANslation (PTRAN) group to study the issues involved in compiling for parallel machines. The group was considered one of the top research groups in the world working with parallelization issues. Her work on these projects culminated in algorithms and technologies that form the basis for the theory of program optimization and are widely used in today's commercial compilers throughout the industry.

Ms. Allen's influence on the IBM community was recognized by her appointment as an IBM fellow, the first woman to receive this recognition. She was also president of the IBM Academy of Technology. The Academy plays an important role in the corporation by providing technical leadership, advancing the understanding of key technical areas and fostering communications among technical professionals.

In 1997, Ms. Allen was inducted into the WITI Hall of Fame. Ms. Allen retired from IBM in 2002.

## Three days later...

WIKIPEDIA The Free Encyclopedia

Article [Talk](#) [Read](#) [Edit](#) [View history](#)

## Frances E. Allen

From Wikipedia, the free encyclopedia

Fran Allen is a pioneer in the field of optimizing compilers. Her achievements include seminal work in compilers, code optimization, and parallelization.

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This article **has not been added to any categories**. Please help out by **adding categories** to it so that it can be listed with similar articles.

## Turing Award Announced and added to her page

In 1997, Ms. Allen was inducted into the [WITI Hall of Fame](#). Ms. Allen retired from IBM in 2002.

Early 2007, she became the first woman to win the the A.M. [Turing Award](#).

V · T · E	A. M. Turing Award laureates	[hide]
	Alan Perlis (1966) · Maurice Vincent Wilkes (1967) · Richard Hamming (1968) · Marvin Minsky (1969) · James H. Wilkinson (1970) · John McCarthy (1971) · Edsger W. Dijkstra (1972) · Charles Bachman (1973) · Donald Knuth (1974) · Allen Newell / Herbert A. Simon (1975) · Michael O. Rabin / Dana Scott (1976) · John Backus (1977) · Robert W. Floyd (1978) · Kenneth E. Iverson (1979) · Tony Hoare (1980) · Edgar F. Codd (1981) · Stephen Cook (1982) · Ken Thompson / Dennis Ritchie (1983) · Niklaus Wirth (1984) · Richard Karp (1985) · John Hopcroft / Robert Tarjan (1986) · John Cocke (1987) · Ivan Sutherland (1988) · William Kahan (1989) · Fernando J. Corbató (1990) · Robin Milner (1991) · Butler Lampson (1992) · Juris Hartmanis / Richard E. Stearns (1993) · Edward Feigenbaum / Raj Reddy (1994) · Manuel Blum (1995) · Amir Pnueli (1996) · Douglas Engelbart (1997) · Jim Gray (1998) · Fred Brooks (1999) · Andrew Yao (2000) · Ole-Johan Dahl / Kristen Nygaard (2001) · Ron Rivest / Adi Shamir / Leonard Adleman (2002) · Alan Kay (2003) · Vint Cerf / Bob Kahn (2004) · Peter Naur (2005) · Frances E. Allen (2006)	
	Categories: <a href="#">Turing Award laureates</a>	

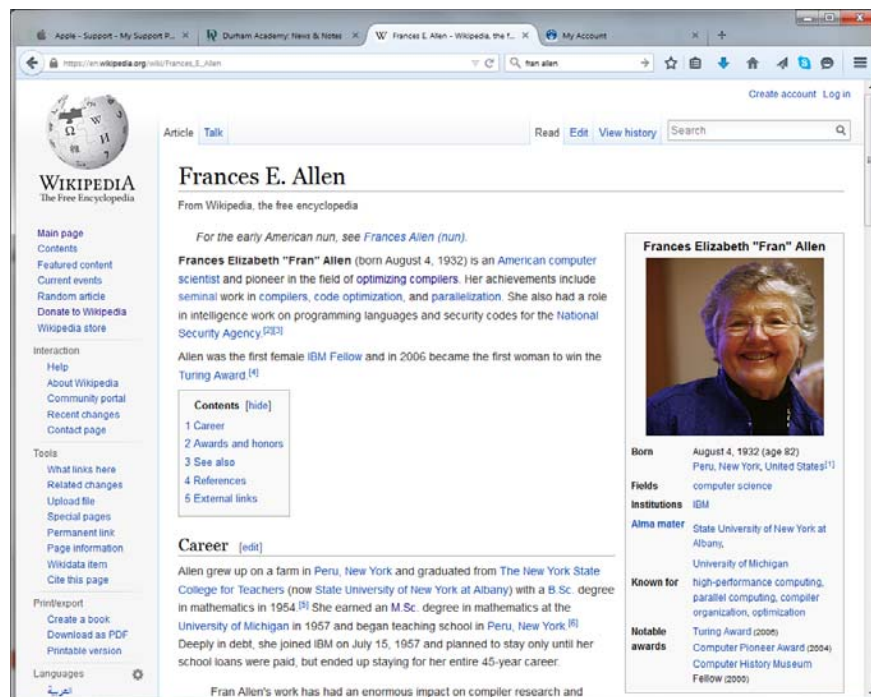
## In the next three days

- Over 30 edits, added awards, boards

### Awards and honors

Allen is a member of the [National Academy of Engineering](#), a fellow of the [IEEE](#), the [Association for Computing Machinery \(ACM\)](#) and the [American Academy of Arts and Sciences](#). She is currently on the [Computer Science and Telecommunications Board](#), the [Computer Research Associates \(CRA\)](#) board and [National Science Foundation's CISE Advisory Board](#).

In 1997, Allen was inducted into the [WITI Hall of Fame](#).<sup>[3]</sup> She retired from IBM in 2002 and won the [Augusta Ada Lovelace Award](#) that year from the [Association for Women in Computing](#). In 2007, she became the first woman to win the A.M. [Turing Award](#).<sup>[4]</sup>



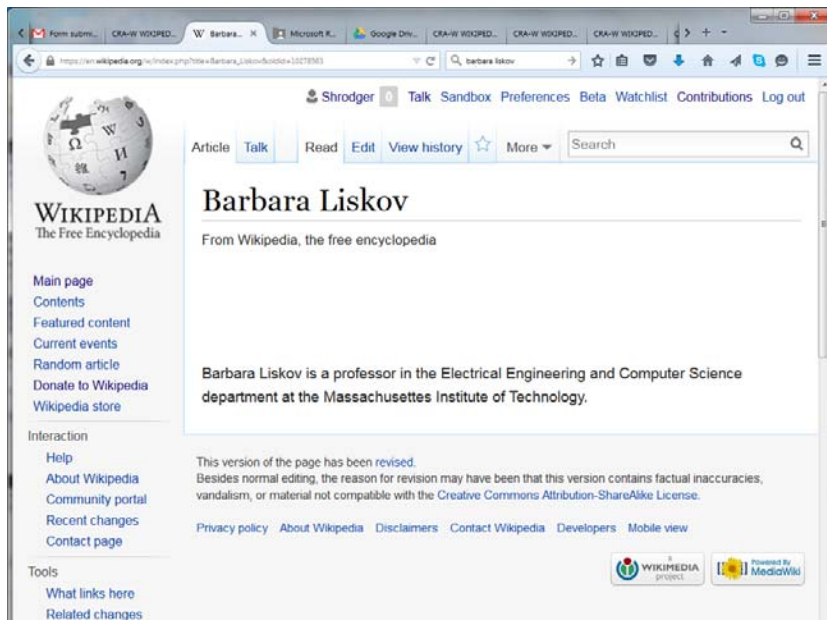
## Barbara Liskov



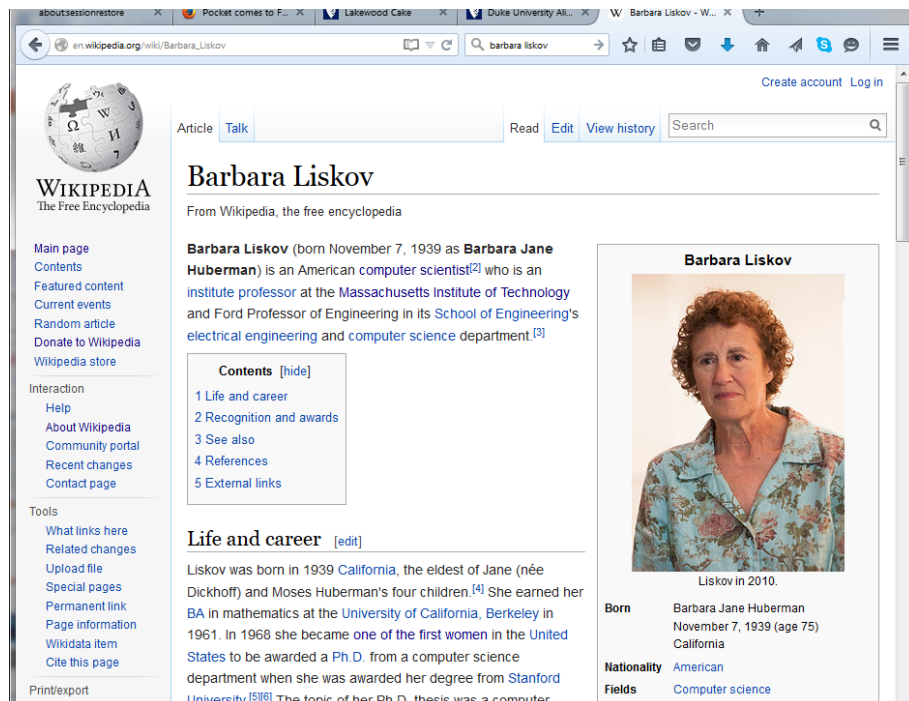
- Turing Award (2008)
- Currently Institute Professor at MIT
- One of the first women to get a PhD in CS in the U.S. (1968) – thesis on chess
- Research
  - Venus operating system
  - Design and Implementation of CLU
  - Argus, high-level language for distributed programs
  - Thor, object oriented database system
- Many awards – NAE, AAAS, Fellow ACM
- Had a Wikipedia page since before Turing Award



Wikipedia page created June 15, 2005



39 minutes later ....



Shafi Goldwasser

- I was in algorithms, followed her career



Page written July 2004



## What about other Notable Women in Computer Science?

- ACM Fellows
  - Few women
    - 1994 first year over 130 Fellows
      - 9-12 were women? Less than 10%
  - About 20-50 Fellows per year
  - 2014 – 47 fellows, 6-8 women
  - Noticed few of Women had Wikipedia pages

## Investigate New CRA-W Project

- Write Wikipedia pages for Notable women in Computing
- How hard is it to write a Wikipedia page?
  - Lots of rules you have to follow
- Another area with few women
  - 2013 study – 16% of Wikipedia writers are female

## Some Rules in Writing Wikipedia Biography pages

- You cannot write your own page!
- Neutral point of view
- Person must be notable
- No original research
  - Must write only facts and reference them
  - Must be verifiable
  - Do not plagiarize – write in your own words
- Regard for subject's privacy
  - NOT A TABLOID!

## Wrote a Wikipedia page

- We had no idea what we were doing....
- At a CRA-W Board meeting in April 2012
- Who to write?
  - Female Turing Award winners had pages
  - All two of them

## Mary Jane Irwin

- Professor at Penn State University
- VLSI Architecture and Automated Design
- Board Level Designs
  - Arithmetic Cube, MGAP, and SPARTA
- Architecture, Logic & Circuit Design Tools
  - ARTIST, PERFLEX, LOGICIAN, DECOMPOSER
- Awards
  - National Academy of Engineering
  - ACM Fellow, IEEE Fellow
- No Wikipedia page!



In writing her Wikipedia page,

Here is what happens when you  
don't know what you are doing...



Spent some time figuring out basics of how to write a biography page

- Checked out other pages
- Did some edits on pages
- Then tried again

## Mary Lou Soffa

- Professor at University of Virginia
- Programming languages
- Compiler technology
- Software Engineering
- Ken Kennedy Award, 2012
  - “provided analytical and experimental models for understanding, predicting and verifying the optimization of software”
- ACM Fellow, 1999
- IEEE Fellow, 2012
- Presidential Award for Excellence in Science, Math and Engineering Mentoring, 1999



I think I figured out how to do it.





## Carla Ellis



- Emeritus Professor Duke University
- Operating Systems
- Energy Management on Mobile Devices
- ACM Fellow

## Another One

This article is an **orphan**, as no other articles link to it. Please [introduce links](#) to this page from [related articles](#); suggestions may be available. (November 2012)

**WIKIPEDIA**  
The Free Encyclopedia

**Carla Ellis**  
From Wikipedia, the free encyclopedia

**Carla Schlatter Ellis** is an American computer scientist and Emeritus Professor of Computer Science at Duke University. She is known for her work in energy management on mobile devices and also for her devotion to increasing the number of women in computer science. She is a founding member of *Systers*, an international email list of women computer scientist that was founded in 1987 by 13 women computer scientists who met at a Symposium on Operating Systems Principles (SOSP). In 2012, *Systers* has over 3000 members.

**Contents** [hide]

- 1 Biography
- 2 Awards and honors
- 3 References
- 4 External links

**Biography** [edit]

Ellis received the B.S. degree from the University of Toledo, Toledo OH, in 1972 and the M.S. and Ph.D. degrees from the University of Washington, Seattle, in 1977 and 1979. She was a member of the Computer Science faculties at the University of Oregon, Eugene, from 1978 to 1980, and at the University of Rochester, Rochester NY, from 1980 to 1986. In 1986 she moved to Duke University as an Associate Professor, then Professor, and currently Emeritus Professor.

**Awards and honors** [edit]

In 2010, the *Association for Computing Machinery* named her an ACM Fellow "for contributions to techniques for energy management

**Carla Schlatter Ellis**

<b>Born</b>	Toledo, Ohio
<b>Nationality</b>	American
<b>Fields</b>	Computer science
<b>Institutions</b>	Duke University University of Rochester University of Oregon
<b>Alma mater</b>	University of Washington University of Toledo
<b>Doctoral advisor</b>	Jean-Loup Baer
<b>Notable awards</b>	ACM Fellow (2010)
<b>Website</b>	www.cs.duke.edu/~carla/

## Wrote a page for her advisor Also an ACM Fellow

Wrote a page for her advisor  
Also an ACM Fellow

**WIKIPEDIA**  
The Free Encyclopedia

**Jean-Loup Baer**  
From Wikipedia, the free encyclopedia

Jean-Loup Baer is a computer scientist and Professor Emeritus at the University of Washington.

**Contents** [hide]

- 1 Biography
- 2 Awards and honors
- 3 References
- 4 External links

**Biography** [edit]

Jean-Loup Baer received the Diplôme d'Ingénieur in Electrical Engineering and the Doctorat 3e cycle in Computer Science from the University of Grenoble (France) and the Ph.D. from UCLA in 1968.

**Jean-Loup Baer**

<b>Fields</b>	Computer science
<b>Institutions</b>	University of Washington
<b>Doctoral students</b>	Carla Ellis
<b>Notable awards</b>	ACM Fellow
<b>Website</b>	homes.cs.washington.edu/~baer/

## Figured out how to add a picture Pictures must be added to Wikimedia and be public

**WIKIPEDIA**  
The Free Encyclopedia

**Tracy Camp**  
From Wikipedia, the free encyclopedia

**Tracy Kay Camp** is an American Computer Scientist noted for her research on wireless networking. She is also noted for her leadership in broadening participation in computing. She is currently the Co-Chair of CRA-W from 2011-2014 and she was the co-Chair of ACM-W [1] from 1998-2002.

**Contents** [hide]

- 1 Biography
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- 3 References
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**Biography** [edit]

Camp received a B.A. in Mathematics from Kalamazoo College in 1987. She received a M.S. in Computer Science from Michigan State University in 1989 and a Ph.D. in Computer Science from The College of William & Mary in 1993.

She then joined the Department of Computer Science at the University of Alabama as an Assistant Professor in 1993. In 1998 she moved to the Colorado School of Mines as an Associate Professor, and was then promoted to Professor in 2000 and to Professor in 2007. In 2010-11, she was Interim Head of Mathematical and Computer Sciences and then Interim Head of Electrical Engineering and Computer Science. In this role, she helped lead this re-organization of the university.

**Tracy Camp**

<b>Born</b>	September 27, 1964 Detroit, Michigan, US
<b>Nationality</b>	American
<b>Fields</b>	Computer Science
<b>Institutions</b>	Colorado School of Mines University of Alabama



Feeling confident, I do another page  
Wrote page offline and dropped in



But still figuring things out  
There is a format for URL

- ACM Distinguished Scientist (2006)<sup>[8]</sup>

## References



This article uses **bare URLs** for citations. Please consider adding **full citations** so that the article remains **verifiable**. Several templates and the **Reflinks** tool are available to assist in formatting. (Reflinks documentation) (March 2013)

1. <sup>^</sup> <http://science.house.gov/hearing/subcommittee-research-applications-information-technology-research-development>
2. <sup>^</sup> <http://www.cs.utexas.edu/news-events/news/2009/kathryn-mckinley-named-acm-fellow>
3. <sup>^</sup> <http://fellow.acm.org>

## Putting References in

- Simplest way – Bare URL:  
<ref> reference here </ref>
- Better way – Full Citation:  
<ref> {{cite web  
|author=  
|url=  
|title=  
|publisher=  
|date=  
|accessdate=  
}}</ref>

Page edited and flagged by others  
quickly

Edited by Smileguy91 in One Minute!  
Warning added in 3 Minutes!

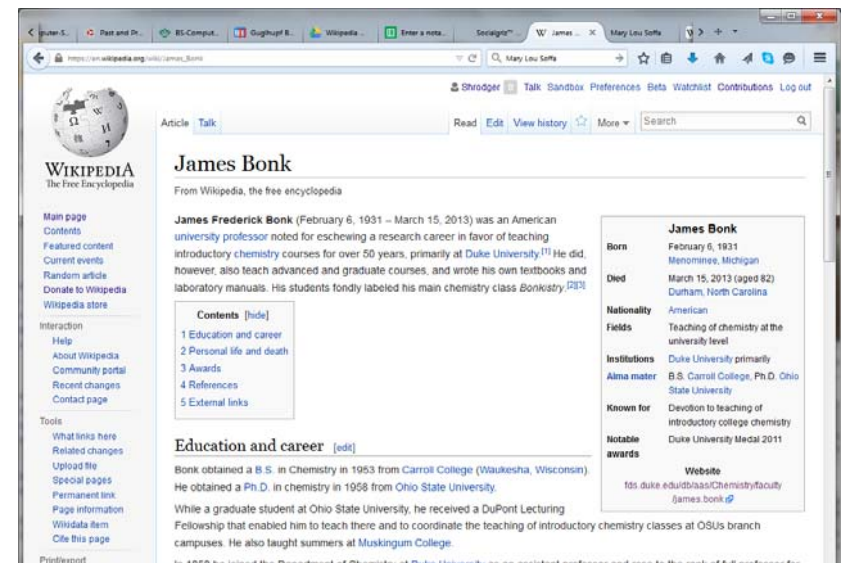


# Do people create new pages?



## James Bonk – “Bonkistry”

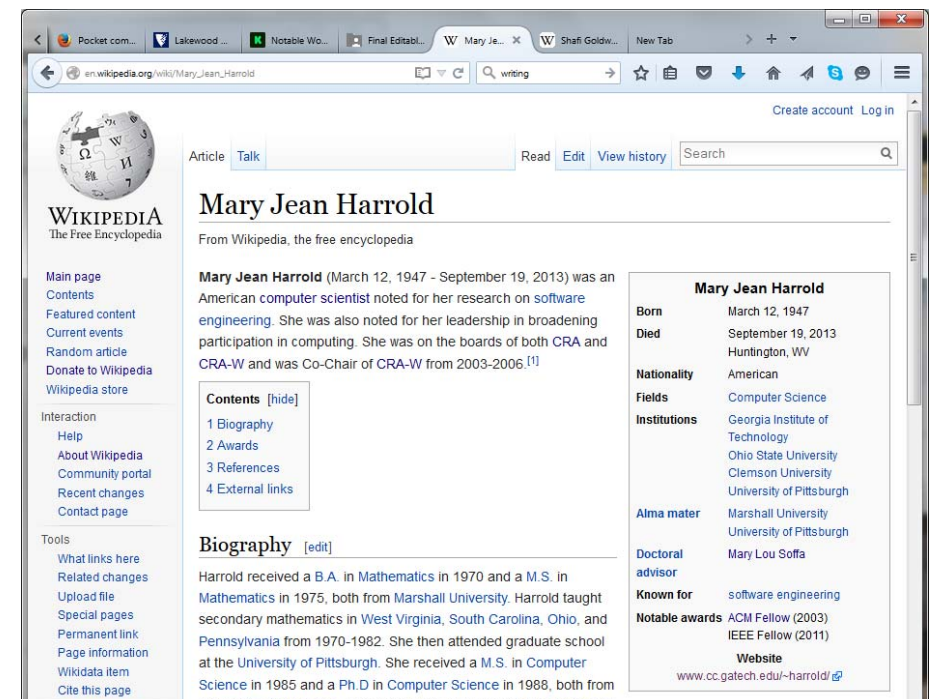
- James Bonk
  - Duke Chemistry Professor for 53 years
  - Famous for the flat tire story
  - The University Medal at Duke University
  - Died March 15, 2013
  - No Wikipedia page
  - Lots of Newspaper articles
- Waited three days, then created his page.
- Others started editing the page



## Mary Jean Harrold



- CS Professor at Georgia Tech
- Software Engineering
- Foundational research on static analysis and testing of software
- In 2007, ACM named her top software engineering researcher in the world
- ACM Fellow, IEEE Fellow
- Died of cancer, Sept 19, 2013
- Wrote Wikipedia page Sept 21, 2013



# Susan Horwitz



- CS Professor at Univ of Wisconsin
- Area of programming languages, software engineering
- Known for program slicing and data-flow analysis
- Several best paper awards and teaching awards
- Chair of AP CS, Peer Led Team Learning with Computer Science
- Created Wikipedia page March 29, 2014
- Died June 11, 2014 of stomach cancer

**Susan B. Horwitz**  
From Wikipedia, the free encyclopedia

*For the biochemist, see Susan Band Horwitz.*

**Susan Beth Horwitz** (January 6, 1955 – June 11, 2014) was an American computer scientist noted for her research on [programming languages](#) and [software engineering](#), and in particular on program slicing and dataflow-analysis. She had several best paper and an impact paper award mentioned below under awards.

She was an award winning teacher at her institution and was the founder of Peer Led Team Learning for Computer Science (PLTLCS), creating the Wisconsin Emerging Scholars-Computer Science (WES-CS) program. She took the lead for an NSF ITWF Grant 0420343 that was a collaboration between eight schools doing PLTLCS, including the University of Wisconsin-Madison with Horwitz, Duke University, Georgia Tech, Rutgers University, University of Wisconsin at Milwaukee, Purdue University, Beloit College, and Loyola College. They published a paper in 2009<sup>[1]</sup> that showed that active recruiting combined with peer-led team learning is an effective approach to attracting and retaining under-represented students in an introductory Computer Science class. She was also noted for her leadership in computing in high schools. She was a member of the Educational Testing Services Advanced Placement Computer Science Test Development Committee for ten years from 1987-97, including chairing the committee for five years from

Susan B. Horwitz	
<b>Born</b>	January 6, 1955 Berkeley, California, U.S.
<b>Died</b>	June 11, 2014 (aged 59) Madison, Wisconsin, U.S.
<b>Nationality</b>	American
<b>Fields</b>	Computer Science
<b>Institutions</b>	University of Wisconsin-Madison (1985-present) Institut National de Recherche en Informatique et en Automatique (INRIA) in Rocquencourt, France (1982-1993-94) Consiglio Nazionale delle Ricerche in Pisa, Italy (2000-2001) University Paris Diderot (2007-2008)
<b>Alma mater</b>	Cornell University

## How do others get Wikipedia pages written? – grad students

**Category:Georgia Institute of Technology faculty**  
From Wikipedia, the free encyclopedia

The main article for this category is *List of Georgia Institute of Technology faculty*.  
This category is for faculty at the Georgia Institute of Technology.

**Pages in category "Georgia Institute of Technology faculty"**  
The following 157 pages are in this category, out of 157 total. This list may not reflect recent changes ([learn more](#)).

<p><b>A</b></p> <ul style="list-style-type: none"> <li>Gregory Abowd</li> <li>Ian F. Akyildiz</li> <li>Silas D. Alben</li> <li>Ali Malkawi</li> <li>Mark D. Allen</li> <li>Arnie Arltin</li> <li>Ronald C. Atkin</li> <li>Christopher G. Atkeson</li> </ul>	<p><b>E</b></p> <ul style="list-style-type: none"> <li>Bruce R. Ellingwood</li> <li>Cherry Logan Emerson (engineer)</li> <li>William Henry Emerson</li> </ul>	<p><b>M</b></p> <ul style="list-style-type: none"> <li>Stanley Mulaik</li> <li>Janet Murray</li> <li>William Muse</li> <li>Elizabeth Mynatt</li> </ul>
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## Wrote a Guide on How to Write Wikipedia Biography www.cs.duke.edu/csed/wikipedia

**CRA-W and Anita Borg Institute Wikipedia Project**  
**Writing Wikipedia Pages for Notable Women in Computing**

[MAIN](#) | [ABOUT](#) | [START](#) | [SELECT](#) | [CREATE](#) | [WRITER](#) | [CARDS](#)

**About this project**

This project started when it was recognized that there are very few notable women (or famous women or leading women) computer scientists who have Wikipedia pages. For example, a large number of women with notable awards such as ACM Fellow, IEEE Fellow, ACM Distinguished Educator, Scientist or Engineer, or other



## Our Wikipedia Guide

- Shorter and more focused than Wikipedia Guide
- Getting Started
  - Get an account
  - Edit some pages
- Select someone to write about
  - Make sure they don't already have a page

## Our Database of Notable Women in CS

- Over 300 women
- Why notable
- Status of their Wikipedia page
- Forms for adding women and updating status

Title/Position	Web page	Prestigious Award or why notable	Wikipedia page?
Professor of Human-Computer Interaction, CS	<a href="http://www.daimi.au.dk/~bodke">http://www.daimi.au.dk/~bodke</a>	Member, CHI Academy	no page
Founder at	<a href="http://anitaborg.org/about/history">http://anitaborg.org/about/history</a>	WITI Hall of Fame, Fellow ACM, EFF Pioneer	has a page
Professor	<a href="http://polaris.gseis.ucla.edu/cv">http://polaris.gseis.ucla.edu/cv</a>	ACM Fellow	has a page, needs work

## Creating a new Wikipedia page

- Copy our template to get started
- Make it a short simple page
  - Education, few awards, links to a few papers
- Search for the name you want the title of the page to be, click to create that page

### Search results

For search options, see [Help:Searching](#).

Margaret Martonosi

Did you mean: [Margaret Martini](#)

[Content pages](#) [Multimedia](#) [Help and Project pages](#) [Everything](#) [Advanced](#) Results 1–3 of 3 for **Margaret Martonosi**

The page "[Margaret Martonosi](#)" does not exist. You can [ask for it to be created](#), but consider checking the search results below to see whether the topic is already covered.

For search help, please visit [Help:Searching](#).

CRA-W: Committee on the Status of Women in Computing Research  
Current Board Members : **Margaret Martonosi**, Gail Murphy, Lori Pollock, Susan

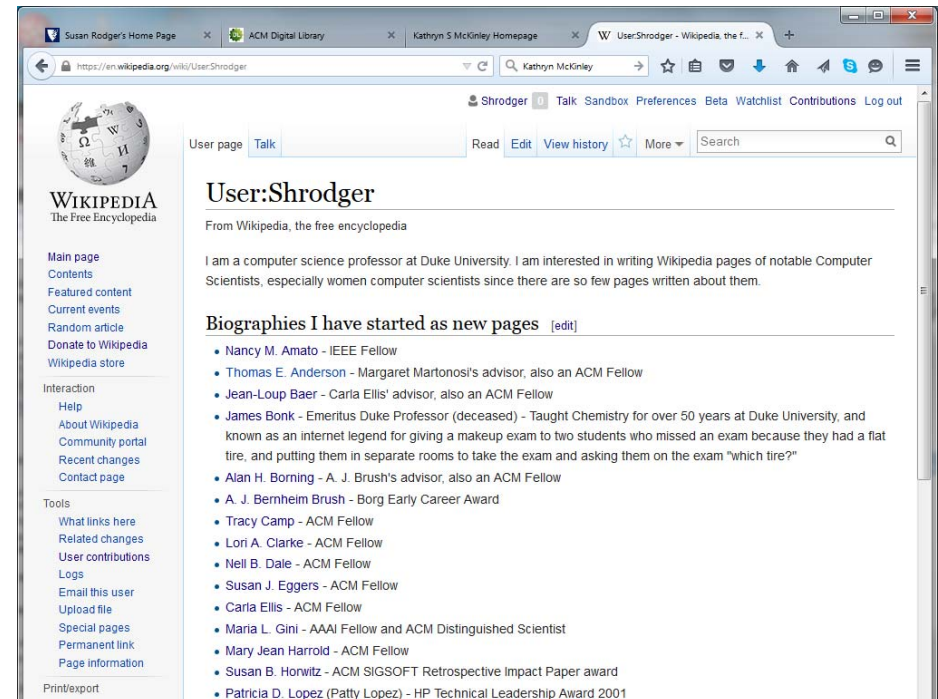
## Creating a new Wikipedia Page (cont.)

- To put in a picture – Search in Wikimedia commons, or ask them to put in a picture.
- Write facts and try to find sources to confirm those facts
  - News release announcing ACM Fellows
  - Don't cut and paste from webpages!
- Link from other pages to their page
- Use standard format for references
  - Our guide has several examples



## Create a Writer page in Wikipedia

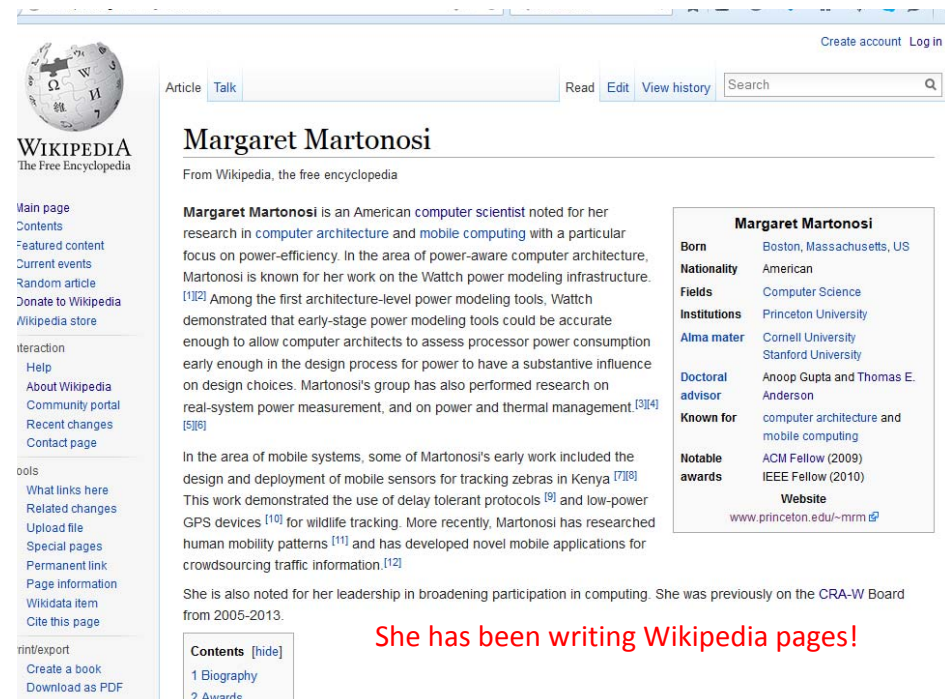
- List Wikipedia pages you have written (and link to them)
- See <https://en.wikipedia.org/wiki/User:Shrodger>
- Written over 20 pages



## Margaret Martonosi



- Professor at Princeton
- Computer Architecture
- Mobile Computing, power-efficient systems
- Wattch power modelling tool
- ZebraNet
- ACM Fellow, IEEE Fellow
- Technical Leadership ABIE Award Winner



# Nancy Amato



- Professor
- Texas A&M University
- Motion planning and Robotics
- Computational biology
- Parallel and Distributed Computing
- IEEE Fellow, AAAS Fellow
- CRA A. Nico Habermann Award

**Nancy M. Amato**

From Wikipedia, the free encyclopedia

**Nancy M. Amato** is an American Computer Scientist noted for her research on the algorithmic foundations of motion planning, computational biology, computational geometry and parallel computing. Her paper on probabilistic roadmap methods (PRMs) is one of the most important papers on PRM. It describes the first PRM variant that does not use uniform sampling in the robot's configuration space.<sup>[1]</sup> She wrote a seminal paper with one of her students that shows how the PRM methodology can be applied to protein motions, and in particular protein folding. This approach has opened up a new research area in computational biology.<sup>[2]</sup> This result opens up a rich new set of applications for this technique in computational biology. Another paper she wrote with her students represents a major advance by showing how global energy landscape statistics such as relative folding rates and population kinetics can be computed for proteins from the approximate landscapes computed by Amato's PRM-based method.<sup>[3]</sup> In another paper she and a student wrote introduced a novel technique, approximate convex decomposition (ACD), for partitioning a polyhedron into approximately convex pieces.<sup>[4]</sup> Amato also co-leads the STAPL project with her husband **Lawrence Rauchwerger**, who is also a computer

**Nancy M. Amato**

<b>Born</b>	Portland, Oregon, US
<b>Nationality</b>	American
<b>Fields</b>	Computer Science
<b>Institutions</b>	Texas A&M University University of Illinois at Urbana-Champaign University of California, Berkeley Stanford University
<b>Alma mater</b>	
<b>Doctoral advisor</b>	Franco P. Preparata
<b>Doctoral students</b>	Steve Wilmarth Daniel Vallejo Greg Schmidt Lucia Dale Wookho Son O. Burchan Bayazit Guang Song Jinsuck Kim Jyh-Ming Lien Xinyu Tang Marco Morales Lydia Tapia

## Still get Warning messages

- Most recent is



This article's **introduction** may be too long for the overall article **length**. Please help by moving some material from it into the body of the article. For more information please read the [layout guide](#) and Wikipedia's [lead section guidelines](#). (July 2014)

**Nancy M. Amato**

From Wikipedia, the free encyclopedia

**Contents** [hide]

- 1 Biography
- 2 Career
- 3 Awards
- 4 References
- 5 External links

Nancy M. Amato is an American Computer Scientist noted for her research in motion planning, computational biology, computational geometry and parallel computing. Her paper on probabilistic roadmap methods (PRMs) is one of the most important papers on PRM. It describes the first PRM variant that does not use uniform sampling in the robot's configuration space.<sup>[1]</sup> She wrote a seminal paper with one of her students that shows how the PRM methodology can be applied to protein motions, and in particular protein folding. This approach has opened up a new research area in computational biology.<sup>[2]</sup> This result opens up a rich new set of applications for this technique in computational biology. Another paper she wrote with her students represents a major advance by showing how global energy landscape statistics such as relative folding rates and population kinetics can be computed for proteins from the approximate landscapes computed by Amato's PRM-based method.<sup>[3]</sup> In another paper she and a student wrote introduced a novel technique, approximate convex decomposition (ACD), for partitioning a polyhedron into approximately convex pieces.<sup>[4]</sup> Amato also co-leads the STAPL project with her husband **Lawrence Rauchwerger**, who is also a computer

**Nancy M. Amato**

<b>Born</b>	Portland, Oregon, US
<b>Nationality</b>	American
<b>Fields</b>	Computer Science
<b>Institutions</b>	Texas A&M University University of Illinois at Urbana-Champaign University of California, Berkeley Stanford University
<b>Alma mater</b>	
<b>Doctoral advisor</b>	Franco P. Preparata
<b>Doctoral students</b>	Steve Wilmarth Daniel Vallejo Greg Schmidt Lucia Dale Wookho Son O. Burchan Bayazit Guang Song Jinsuck Kim Jyh-Ming Lien Xinyu Tang Marco Morales Lydia Tapia Shawna Thomas

## Fixed Mary Jane Irwin's Page



## To Share These Achievements....

- August 2014, with Katy Dickinson and Jessica Dickinson Goodman....
- Created Notable Women in Computing cards



## Vicki Hanson Had no Wikipedia page, now does

