



COMPUTER SCIENCE^(/)



COLUMBIA | ENGINEERING
The Fu Foundation School of Engineering and Applied Science (<http://engineering.columbia.edu/>)

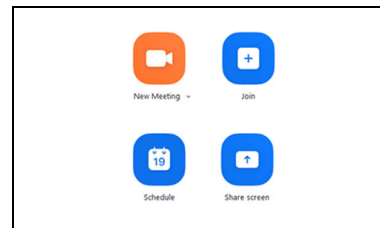
Security & Privacy



Computer Security Pioneer Steve Bellovin First to Win Two USENIX Flame Awards

Bellovin shares his second lifetime award with Tufts' Susan Landau and Georgetown's Matt Blaze for their work on computer science, computer security, law, and public policy.

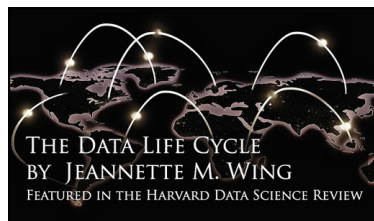
(<https://www.cs.columbia.edu/2023/computer-security-pioneer-steve-bellovin-first-to-win-two-usenix-flame-awards/?redirect=a206f71e56390824cae7924398e1567d>)



Zoom Security: the Good, the Bad, and the Business Model

(<https://www.cs.columbia.edu/2020/zoom-security-the-good-the-bad-and-the-business-model/?redirect=bbcb733c58aa6f93d967c942f0ab72db>)

(<https://www.cs.columbia.edu/2019/the-data-life-cycle/?redirect=3d7b8f659c69c5c4bc6f61d63c2b39ce>)



The Data Life Cycle

About

The security group works on a diverse set of security and privacy issues arising across the software/hardware stack.

The key research goal of the group is to design, develop, and deploy principled solutions for improving the security and privacy aspects of computer systems.

The group has a broad set of expertise ranging from systems security to designing privacy policies. It is a highly collaborative group and most of their students are co-advised by multiple faculty members.

Faculty and Affiliates



(<https://www.cs.columbia.edu/~sm>)

Steven Bellovin
(<https://www.cs.columbia.edu/~sm>
b)



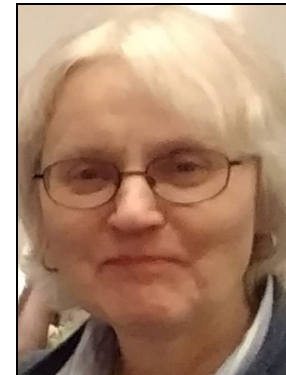
(<http://www.cs.columbia.edu/~roxana/>)

Roxana Geambasu
(<http://www.cs.columbia.edu/~roxana/>)



(<http://sumanj.info>)

Suman Jana
(<http://sumanj.info>)



(<http://www.cs.columbia.edu/~kaiser>)

Gail Kaiser
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Henning

Schulzrinne

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(<http://www.cs.columbia.edu/~simha/>)

Simha

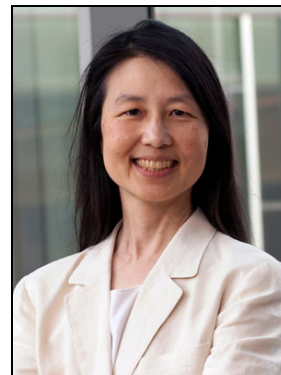
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(<http://www.cs.columbia.edu/~simha/>)



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Salvatore Stolfo

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Jeannette Wing

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(<http://www.asafcidon.com>)

Asaf Cidon

(<http://www.asafcidon.com>)

olumbia.edu/~wing)



(<https://www.g2lab.org>)

Gamze Gursoy

(<https://www.g2lab.org>)

lumbia.edu/~junfeng)



(<https://www.cs.columbia.edu/~rwright/>)

Rebecca Wright

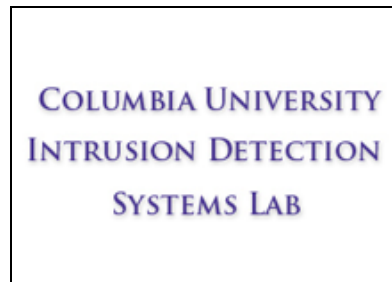
(<https://www.cs.columbia.edu/~rwright/>)

Research Labs



Software Systems
Laboratory

(<https://www.cs.columbia.edu/abs/software-systems-laboratory/>)



Intrusion Detection
Systems

(<https://www.cs.columbia.edu/ids/>)

Find the COVID-19 Resource Guide here (<https://news.columbia.edu/news/update-covid-19-university-guidance>).

Computer Science at Columbia University

The computer science department advances the role of computing in our lives through research and prepares the next generation of computer scientists with its academic programs.

Find out more about the department here (/about).

Upcoming Events

SEP
26

CSB 480

Theory Student Seminar

Tuesday 12:30 pm

SEP
29

Semirandom CSP refutation via Kikuchi matrices: Algorithms, Certificates, and Connections

Theory Lunch

Friday 12:30 pm

CS conference room (CSB453)

Peter Manohar, Carnegie Mellon University

OCT
03

CSB 480

Theory Student Seminar

Tuesday 12:40 pm

OCT
06

Friday 12:30 pm

CS conference room (CSB453)

Sunoo Park, New York University

Theory Lunch - Sunoo Park

Theory Lunch

[View All >> \(https://www.cs.columbia.edu/calendar/\)](https://www.cs.columbia.edu/calendar/)

In the News

MIT Technology Review

(<https://www.cs.columbia.edu/2023/the-computer-scientist-who-hunts-for-costly-bugs-in-crypto-code/?redirect=0c99d322ac4a621f0cb1bf31ffea64ba>)

The Computer Scientist Who Hunts for Costly Bugs in Crypto Code (<https://www.cs.columbia.edu/2023/the-computer-scientist-who-hunts-for-costly-bugs-in-crypto-code/?redirect=0c99d322ac4a621f0cb1bf31ffea64ba>)

(Ronghui Gu)



(<https://www.cs.columbia.edu/2022/this-self-aware-robot-taught-itself-how-to-control-its-own-body/?redirect=2275dd724f7cd014090b808bf9f6c3c9>)

This Self-Aware Robot Taught Itself How to Control Its Own Body (<https://www.cs.columbia.edu/2022/this-self-aware-robot-taught-itself-how-to-control-its-own-body/?redirect=2275dd724f7cd014090b808bf9f6c3c9>)

(Carl Vondrick)



([https://www.cs.columbia.edu/2022/columbia-awarded-185-million-in-patent-](https://www.cs.columbia.edu/2022/columbia-awarded-185-million-in-patent-infringement-lawsuit/?redirect=00ff51e39830d7b7a1521ed64b5174b7)

Columbia Awarded \$185 Million in Patent-Infringement Lawsuit (<https://www.cs.columbia.edu/2022/columbia-awarded-185-million-in-patent-infringement-lawsuit/?redirect=00ff51e39830d7b7a1521ed64b5174b7>)

(Salvatore Stolfo)

infringement-lawsuit/?

redirect=00ff51e39830d7b7a1521ed64b5174b7)



Mathematicians Transcend Geometric Theory of Motion

([https://www.cs.columbia.edu/2021/mathematicians-transcend-geometric-theory-of-motion/?](https://www.cs.columbia.edu/2021/mathematicians-transcend-geometric-theory-of-motion/?redirect=5673fa940ca6c0bede69f18e4810731e)

[redirect=5673fa940ca6c0bede69f18e4810731e](https://www.cs.columbia.edu/2021/mathematicians-transcend-geometric-theory-of-motion/?redirect=5673fa940ca6c0bede69f18e4810731e))

(Andrew Blumberg)

([https://www.cs.columbia.edu/2021/mathematicians-](https://www.cs.columbia.edu/2021/mathematicians-transcend-geometric-theory-of-motion/?redirect=5673fa940ca6c0bede69f18e4810731e)

[transcend-geometric-theory-of-](https://www.cs.columbia.edu/2021/mathematicians-transcend-geometric-theory-of-motion/?redirect=5673fa940ca6c0bede69f18e4810731e)

[motion/?](https://www.cs.columbia.edu/2021/mathematicians-transcend-geometric-theory-of-motion/?redirect=5673fa940ca6c0bede69f18e4810731e)

[redirect=5673fa940ca6c0bede69f18e4810731e](https://www.cs.columbia.edu/2021/mathematicians-transcend-geometric-theory-of-motion/?redirect=5673fa940ca6c0bede69f18e4810731e))

FINANCIAL TIMES

Auto-scans of phones would violate data privacy, say security experts ([https://www.cs.columbia.edu/2021/auto-scans-of-phones-would-violate-data-privacy-say-security-experts/?](https://www.cs.columbia.edu/2021/auto-scans-of-phones-would-violate-data-privacy-say-security-experts/?redirect=2ed01b3c9d786fd4c2557ead92be01b1)

[redirect=2ed01b3c9d786fd4c2557ead92be01b1](https://www.cs.columbia.edu/2021/auto-scans-of-phones-would-violate-data-privacy-say-security-experts/?redirect=2ed01b3c9d786fd4c2557ead92be01b1))

(Steven Bellovin)

([https://www.cs.columbia.edu/2021/auto-](https://www.cs.columbia.edu/2021/auto-scans-of-phones-would-violate-data-privacy-say-security-experts/?redirect=2ed01b3c9d786fd4c2557ead92be01b1)

[scans-of-phones-would-violate-](https://www.cs.columbia.edu/2021/auto-scans-of-phones-would-violate-data-privacy-say-security-experts/?redirect=2ed01b3c9d786fd4c2557ead92be01b1)

[data-privacy-say-security-experts/?](https://www.cs.columbia.edu/2021/auto-scans-of-phones-would-violate-data-privacy-say-security-experts/?redirect=2ed01b3c9d786fd4c2557ead92be01b1)

[redirect=2ed01b3c9d786fd4c2557ead92be01b1](https://www.cs.columbia.edu/2021/auto-scans-of-phones-would-violate-data-privacy-say-security-experts/?redirect=2ed01b3c9d786fd4c2557ead92be01b1))

Press Mentions

TIME

How The Morning Show Rewrites the Notorious 2014 Sony Hack (<https://www.cs.columbia.edu/2023/how-the-morning-show-rewrites-the-notorious-2014-sony-hack/?redirect=01cb778274fb38a72826afd84056ab79>)

(Suman Jana)

(<https://www.cs.columbia.edu/2023/how-the-morning-show-rewrites-the-notorious-2014-sony-hack/?redirect=01cb778274fb38a72826afd84056ab79>)

**The
Washington
Post**

Your Résumé Isn't the Only Thing Popular Job Sites Evaluate (<https://www.cs.columbia.edu/2023/your-resume-isnt-the-only-thing-popular-job-sites-evaluate/?redirect=f25fb139a595563c5d6b2ebf335c354a>)

(<https://www.cs.columbia.edu/2023/your-resume-isnt-the-only-thing-popular-job-sites-evaluate/?redirect=f25fb139a595563c5d6b2ebf335c354a>)

**SCIENTIFIC
AMERICAN**

Yes, AI Models Can Get Worse over Time (<https://www.cs.columbia.edu/2023/yes-ai-models-can-get-worse-over-time/?redirect=bd00821a18c6554527db1cab787c273b>)

(Kathleen McKeown, Vishal Misra)

(<https://www.cs.columbia.edu/2023/yes-ai-models-can-get-worse-over-time/?redirect=bd00821a18c6554527db1cab787c273b>)



Here's how AI is being used to unlock secrets still hidden in the human brain (<https://www.cs.columbia.edu/2023/heres-how-ai-is-being-used-to-unlock-secrets-still-hidden-in-the-human-brain/?...>)

(Richard Zemel)

(<https://www.cs.columbia.edu/2023/heres-how-ai-is-being-used-to-unlock-secrets-still-hidden-in-the-human-brain/?>

redirect=4055e95b510974e140a3552097549bb7)



Does AI in NYC need restrictions? Officials hold closed-door meeting to discuss (<https://www.cs.columbia.edu/2023/does-ai-in-nyc-need-restrictions-officials-hold-closed-door-meeting-to-discuss...>)

(<https://www.cs.columbia.edu/2023/does-ai-in-nyc-need-restrictions-officials-hold-closed-door-meeting-to-discuss/?>

redirect=557ac481d534504ff10bb8a2246504e8)

(<https://www.columbia.edu>)

Links

Map (https://www.cs.columbia.edu/wp-content/uploads/2022/07/morningsidemap_2015aug-7.pdf)

School of Engineering And Applied Science (<http://engineering.columbia.edu/>)

Data Science Institute (<http://datascience.columbia.edu/>)

CRF (<http://www.cs.columbia.edu/crf>)

MICE (<https://mice.cs.columbia.edu>)

ASCENT Program (<https://www.cs.columbia.edu/ascent/>)

Copyright FAQ (<https://www.cs.columbia.edu/resources/copyright/>)

CS Advising (<https://www.cs.columbia.edu/academic-advising/>)

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