CS@CU **COMPUTER SCIENCE** (/)

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

Artificial Intelligence

(https://www.cs.columbia.edu/2021/ai-what-lies-ahead/)

AI: What Lies Ahead

CS professors and students are featured in the Columbia Engineering Magazine for their work in shaping the next wave of artificial intelligence.

Elias Bareinboim and Shuran Song Win J.P. Morgan Faculty Research Awards 2021

The J.P. Morgan AI Research Awards 2021 partners with research thinkers across artificial intelligence.

(https://www.cs.columbia.edu/2021/elias-bareinboim-and-shuran-song-win-j-p-morgan-faculty-research-awards-2021/?redirect=acaab9ebcc4b02872443a7857b35cf3c)

(https://www.cs.columbia.edu/2019/cs-professors-part-of-the-inaugural-j-p-morgan-faculty-research-awards/)
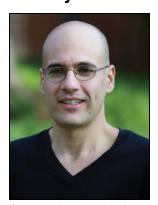
CS Professors Part of the Inaugural J.P. Morgan Faculty Research Awards

About

Artificial Intelligence (AI) is concerned with the development of systems that exhibit behavior typically associated with human cognition, such as perceiving, learning, communicating, reasoning, making decisions, and acting in a physical and social environment. AI research at Columbia CS focuses on machine learning, natural language and speech processing, computer vision, robotics, and security.

AI researchers collaborate widely within the university and beyond, contributing to applications in medicine, public safety, law, journalism, and other areas. Some AI faculty are cross-listed with the Statistics department, Electrical Engineering department, and the Data Science Institute.

Faculty and Affiliates

(https://causalai.net/) (http://www.cs.columbia.edu/~bauer)(http://www.peternbelhumeur.com)(http://www.cs.columbia.edu/~blei)

Elias Bareinboim   **Daniel Bauer**   **Peter Belhumeur**   **David Blei**

(https://causalai.   **(http://www.cs.co**   **(http://www.peter**   **(http://www.cs.co**

net/)

lumbia.edu/~bauer)

nbelhumeur.com)

lumbia.edu/~blei)

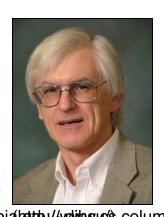(http://www.ee.columbia.edu/~sfchang) (http://www.cs.columbia.edu/~julia/) (http://julia.cs.columbia.edu/~djhsu/) (http://www.cs.columbia.edu/~jrk/)

Shih-Fu Chang (http://www.co lumbia.edu/~sfch ang)

Julia Hirschberg (http://www.cs.co lumbia.edu/~julia /)

Daniel Hsu (http://www.cs.co lumbia.edu/~djhs u/)

John Kender (http://www.cs.co lumbia.edu/~jrk/)

(http://www.cs.columbia.edu/~kathy/) (http://www.cs.columbia.edu/~nayar/) (http://www.cs.columbia.edu/~ansaf/) (http://www.cs.columbia.edu/~brian/)

Kathleen McKeown (http://www.cs.co

Shree Nayar (http://www.cs.co lumbia.edu/~nay ar/)

Ansaf Salleb-Aouissi (http://www.cs.co

Brian Smith (http://www.cs.co lumbia.edu/~bria n/)
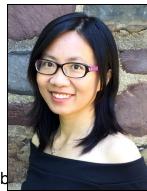
lumbia.edu/~kath
y/)

lumbia.edu/~ans
af/)

(http://www.cs.columbia.edu/~verma/)

**Nakul Verma
(http://www.cs.co
lumbia.edu/~ver
ma/)**

(http://www.cs.columbia.edu/~vondrick/)

**Carl Vondrick
(http://www.cs.co
lumbia.edu/~von
drick/)**

(http://www1.cs.columbia.edu/~smara)

**Smaranda
Muresan
(http://www1.cs.c
olumbia.edu/~sm
ara)**

(https://www.cs.columbia.edu/~shurans/index.html)

**Shuran Song
(https://www.cs.c
olumbia.edu/~sh
urans/index.html)**

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	Theory Student Seminar
26	**Tuesday 12:30 pm**
CSB 480	

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

Theory Student Seminar

Tuesday 12:40 pm

CSB 480

OCT
06

Theory Lunch - Sunoo Park

Theory Lunch

Friday 12:30 pm

CS conference room (CSB453)

Sunoo Park, New York University

View All >> (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-

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/?redirect=5673fa940ca6c0bede69f18e4810731e)
(Andrew Blumberg)

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

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)
(Steven Bellovin)

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

Press Mentions

TIME

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

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)

The Washington Post

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

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)

SCIENTIFIC AMERICAN

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

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)

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)

Apply

Columbia Undergraduate Admissions (SEAS) (http://undergrad.admissions.columbia.edu/learn/academiclife/engineering)

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…

(Jeannette Wing)

M.S./Ph.D. Application (https://apply.engineering.columbia.edu/apply/)

MS Express Application for Current Undergrads (http://gradengineering.columbia.edu/ms-express-application-columbia-university-undergraduates)

(https://www.cs.columbia.edu/2023/does-ai-in-nyc-need-restrictions-officials-hold-closed-door-meeting-to-discuss/?redirect=557ac481d534504ff10bb8a2246504e8)

CS@CU MS Bridge Program in Computer Science (https://www.cs.columbia.edu/ms-bridge/)

(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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Fax: +1-212-853-8440

Contact Us (/contact)

Directions (https://www.cs.columbia.edu/resources/directions/)

Webmaster (mailto:webmaster@cs.columbia.edu)

Privacy Policy (https://www.cs.columbia.edu/privacy-policy/)