



COMPUTER SCIENCE<sup>(/)</sup>



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

## NLP & Speech



### 7 CS Papers Accepted to NAACL 2021

Research papers from the Natural Language Processing and Speech groups have been accepted to the 2021 Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL-HLT 2021).

(<https://www.cs.columbia.edu/2021/naacl-2021/>)



### Julia Hirschberg elected to the American Academy of Arts and Sciences

Julia Hirschberg elected to the American Academy of Arts and Sciences

(<https://www.cs.columbia.edu/2018/julia-hirschberg-elected-to-the-american-academy-of-arts-and-sciences/>)

(<https://www.cs.columbia.edu/2023/voices-of-cs-tuhin-chakrabarty/>)



**Voices of CS: Tuhin Chakrabarty**

PhD student Tuhin Chakrabarty talks about how his research is tapping into the creative side of computer science.

**About**

The Speech and Natural Language Processing groups do fundamental work in language understanding and generation with applications to a wide variety of topics, including summarization, argumentation, persuasion, sentiment, detecting deceptive, emotional and charismatic speech, text-to-speech synthesis, analysis of social media to detect mental illness, abusive language, and radicalization.

The groups collaborate closely on many research projects with each other, with language faculty in other universities, and with Columbia faculty in other disciplines. They also mentor a very large number of master's and undergraduate research project students who participate in their research each semester. They have regular talks for faculty, students, and the larger New York area community.

**Faculty and Affiliates**



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

**Daniel Bauer**  
(<http://www.cs.columbia.edu/~bauer/>)



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

**Julia Hirschberg**  
(<http://www.cs.columbia.edu/~julia/>)



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

**Kathleen McKeown**  
(<http://www.cs.columbia.edu/~kathy/>)



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

**Zhou Yu**  
(<http://www.cs.columbia.edu/~zhouyu/>)



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

**Smaranda Muresan**  
(<http://www1.cs.columbia.edu/~smara>)

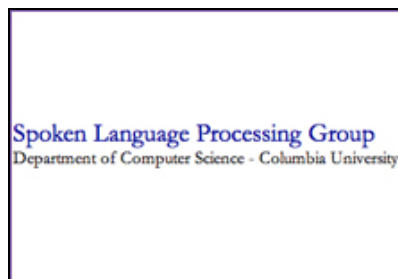


(<http://people.dbmi.columbia.edu/noemie>)

**Noemie Elhadad**

(<http://people.dbmi.columbia.edu/noemie>)

## Research Labs



Spoken Language  
Processing Group

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



Natural Language  
Processing Group

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

**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-](https://www.cs.columbia.edu/2023/the-computer-scientist-who-hunts-for-costly-bugs-in-crypto-code/)

**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)

costly-bugs-in-crypto-code/?

redirect=0c99d322ac4a621f0cb1bf31ffea64ba)



**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/this-self-aware-robot-taught-itself-how-to-control-its-own-body/?>

redirect=2275dd724f7cd014090b808bf9f6c3c9)



**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)

(<https://www.cs.columbia.edu/2022/columbia-awarded-185-million-in-patent-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)

The logo for the Financial Times, featuring the words "FINANCIAL TIMES" in a black, serif, all-caps font. The text is centered within a solid orange rectangular background.

**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

The logo for the magazine TIME, featuring the word "TIME" in a large, red, serif, all-caps font.

**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>)





**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>)

# Gothamist

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

Columbia Undergraduate Admissions (SEAS)

(Jeanette Wing)

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

ai-in-nyc-need-restrictions-officials-hold-closed-door-meeting-to-discuss/? (https://apply.engineering.columbia.edu/apply/)

hold-closed-door-meeting-to-discuss/? (http://gradengineering.columbia.edu/ms-express-application-columbia-university-undergraduates)

discuss/? (http://gradengineering.columbia.edu/ms-express-application-columbia-university-undergraduates)

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/)

## Contact

### Computer Science Department

500 West 120 Street, Room 450

MC0401

New York, New York 10027

Phone: +1-212-853-8400

Fax: +1-212-853-8440

Contact Us (/contact)

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

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

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