

Yian Yin

CONTACT INFORMATION	Northwestern University	<i>Email:</i> yianyin@u.northwestern.edu
	Center for Science of Science and Innovation Northwestern Institute on Complex Systems 600 Foster Street, Evanston, IL 60208	<i>Website:</i> https://www.yianyin.net <i>Voice:</i> 425-209-5518 Updated May 2022
ACADEMIC POSITIONS	Cornell University , Ithaca, NY, USA	
	Assistant Professor, Information Science, Bowers College of Computing & Information Science	Jul 2023 –
	Northwestern University , Evanston, IL, USA	
	Research Assistant Professor, Kellogg School of Management	Jul 2022 – Jun 2023
	Research Fellow, Center for Science of Science & Innovation	Sep 2019 –
	Researcher in Residence, Northwestern Institute on Complex Systems	Aug 2016 –
	Microsoft Research , Redmond, WA, USA	
	Visiting Researcher, Microsoft Academic Graph Analytics	Oct 2018 – Nov 2018
	Pennsylvania State University , University Park, PA, USA	
	Visiting Scholar, College of Information Sciences & Technology	Jul 2015 – Oct 2015
EDUCATION	Peking University , Beijing, China	
	Undergraduate Research Assistant, Center for Information Sciences	May 2014 – Jun 2016
	Northwestern University , Evanston, IL, USA	
	Ph.D. , Industrial Engineering & Management Sciences McCormick School of Engineering & Applied Sciences	Expected 2022
	Committee: Noshir Contractor ^{chair} , Dashun Wang ^{co-chair} , Jorge Nocedal	
	M.Sc. , Industrial Engineering & Management Sciences	Dec 2017
	Peking University , Beijing, China	
	B.Sc. , Statistics School of Mathematical Sciences	Jun 2016
	B.Ec. , Economics National School of Development	Jun 2016
SELECTED AWARDS	• Top 25 Papers in Social Sciences and Human Behaviour, Nature Communications	2022
	• Rising Star in Data Science (Spotlight), University of Chicago	2021
	• Complex Systems Scholarship, Young Researchers in Complex Systems Society	2021
	• Best Reviewer, ICWSM: International AAAI Conference on Web and Social Media	2021
	• Best Reviewer, AOM Technology and Innovation Management	2021
	• Top 100 Most-discussed Papers across All Sciences, Altmetric.com	2020
	• Conference Scholarship, Network Science Society Conference	2020
	• Young Network Scientist Award, Society of Young Network Scientists	2017
	• Graduate Fellowship, Northwestern University	2016

PUBLICATIONS ¶: equal contributions. ‡: students I have mentored.

- JOURNAL PUBLICATIONS
- [1] Jian Gao, **Yian Yin**¶, Kyle R. Myers, Karim R. Lakhani & Dashun Wang (2021)
Potentially long-lasting effects of the pandemic on scientists
Nature Communications, **1**, 12: 6188. [10.1038/s41467-021-26428-z](https://doi.org/10.1038/s41467-021-26428-z)
 - [2] **Yian Yin**¶, Jian Gao¶, Benjamin F. Jones & Dashun Wang (2021)
Coevolution of policy and science during the pandemic
Science, **371**, 6525: 128–130. [10.1126/science.abe3084](https://doi.org/10.1126/science.abe3084)
 - [3] Kyle R. Myers, Wei Yang Tham, **Yian Yin**, Nina Cohodes, Jerry G. Thursby, Marie C. Thursby, Peter Schiffer, Joseph T. Walsh, Karim R. Lakhani & Dashun Wang (2020)
Unequal effects of the COVID-19 pandemic on scientists
Nature Human Behaviour, **4**, 9: 880–883. [10.1038/s41562-020-0921-y](https://doi.org/10.1038/s41562-020-0921-y)
 - [4] Jichao Li‡, **Yian Yin**, Santo Fortunato & Dashun Wang (2020)
Scientific elite revisited: Patterns of productivity, collaboration, authorship and impact
Journal of the Royal Society Interface, **17**, 165: 20200135. [10.1098/rsif.2020.0135](https://doi.org/10.1098/rsif.2020.0135)
 - [5] **Yian Yin**, Yang Wang, James A. Evans & Dashun Wang (2019)
Quantifying the dynamics of failure across science, startups and security
Nature, **575**, 7781: 190–194. [10.1038/s41586-019-1725-y](https://doi.org/10.1038/s41586-019-1725-y)
 - [6] Jichao Li‡, **Yian Yin**, Santo Fortunato & Dashun Wang (2019)
Nobel laureates are almost the same as us
Nature Reviews Physics, **1**, 5: 301–303. [10.1038/s42254-019-0057-z](https://doi.org/10.1038/s42254-019-0057-z)
 - [7] Jichao Li‡, **Yian Yin**, Santo Fortunato & Dashun Wang (2019)
A dataset of publication records for Nobel laureates
Scientific Data, **6**, 1: 33. [10.1038/s41597-019-0033-6](https://doi.org/10.1038/s41597-019-0033-6)
 - [8] **Yian Yin** & Dashun Wang (2017)
The time dimension of science: Connecting the past to the future
Journal of Informetrics, **11**, 2: 608–621. [10.1016/j.joi.2017.04.002](https://doi.org/10.1016/j.joi.2017.04.002)
- WORKING PAPERS
- [9] **Yian Yin**, Yuxiao Dong, Kuansan Wang, Dashun Wang & Benjamin F. Jones (2022)
Public use and public funding of science
NBER Working Paper w28748
 - [10] Ryan R. Hill¶, **Yian Yin**¶, Carolyn Stein¶, Dashun Wang & Benjamin F. Jones (2022)
Adaptability and the pivot penalty in science and technology
SSRN 3886142, in submission.
 - [11] Zihang Lin‡, **Yian Yin**, Lu Liu & Dashun Wang (2022)
SciSciNet: A large-scale open datalake for the science of science
- SELECTED WORK IN PROGRESS
- [12] **Yian Yin** & Dashun Wang
Quantifying punctuated record-breaking dynamics
 - [13] **Yian Yin** & Dashun Wang
Universal limits of learning
 - [14] Yang Wang, **Yian Yin**, Lu Liu & Dashun Wang
Funding and the end of hot streaks in scientific careers
 - [15] Alexander C. Furnas, Jian Gao, **Yian Yin** & Dashun Wang
The political mobilization of scientists in the United States

8. Invited talk, Interactive Computing Seminar Georgia Institute of Technology (online)	2022/02
9. Invited talk, Information Sciences Seminar University of Illinois at Urbana-Champaign (online)	2022/02
10. Invited talk, Computational Social Science Seminar University of Pittsburgh (online)	2022/02
11. Invited talk, Engineering Management and Systems Engineering Seminar George Washington University (online)	2022/02
12. Invited talk, Industrial Engineering Seminar Purdue University (online)	2022/01
13. Invited talk, Mechanical and Industrial Engineering Seminar University of Toronto (online)	2022/01
14. Invited talk, System Dynamics Group Seminar MIT Sloan School of Management, Cambridge, MA	2021/12
15. Invited talk, Sociology Department Colloquium University of Chicago, Chicago, IL	2021/11
16. Invited talk, Management & Organizations Seminar NYU Stern School of Business (online)	2021/11
17. Invited talk, Sociology Department Seminar Purdue University (online)	2021/11
18. INFORMS Annual Meeting Anaheim, CA	2021/10
19. Harvard Business School Digital Doctoral Workshop Boston, MA (online)	2021/09
20. Minerva Research Network Workshop Wautoma, WI	2021/08
21. International Conference on Computational Social Science (IC ² S ²) Zürich, Switzerland (online)	2021/07
22. Networks 2021: A Joint Sunbelt and NetSci Conference Washington, DC (online)	2021/07
23. Seminar, Stanford METRICS International Forum Meta-research Innovation Center, Stanford University (online)	2021/04
24. Invited talk, Webinar, Saving Curies Series	2021/03
25. Invited talk, Webinar, Swarma Club	2021/01
26. Spotlight speaker, Rising Stars in Data Science Workshop, Data Science Institute University of Chicago (online)	2021/01
27. The 7 th Satellite on Quantifying Success, NetSci 2020	2020/09
28. Invited talk, Webinar ML Collective	2020/09

29. International Conference on Computational Social Science (IC ² S ²) Boston, MA (online)	2020/07
30. Seminar, Northwestern Institute on Complex Systems	2020/06
31. Invited talk, Webinar, Aggregate Intellect (ai.science)	2020/02
32. Invited talk, Northwestern Data Science Night	2020/02
33. Invited talk, Michigan Institute for Data Science Symposium University of Michigan, Ann Arbor, MI	2019/11
34. Seminar, Northwestern Institute on Complex Systems	2019/10
35. Invited talk, Institute for Research on Innovation & Science Summit University of Michigan, Ann Arbor, MI	2019/09
36. Invited talk, Great Lakes Data Science Workshop University of Notre Dame, Notre Dame, IN	2019/09
37. International Conference on Computational Social Science (IC ² S ²) Amsterdam, Netherlands	2019/07
38. NetSci 2019: International Workshop and Conference on Network Science Burlington, VT	2019/05
39. Invited talk, Seminar, Center for Neuroscience, Zhejiang University Hangzhou, Zhejiang, China	2018/12
40. International Conference on Computational Social Science (IC ² S ²) Evanston, IL	2018/07
41. Summer Institute in Computational Social Science (SICSS) Chicago, IL	2018/06
42. Seminar, Northwestern IEMS-OM Collaborative Workshop	2018/04
43. Speaker, Northwestern Computational Research Day	2018/04
44. Seminar, Northwestern SIAM Bridging the Gap	2017/11
45. Speaker, Northwestern Current Research & Future Careers Symposium	2017/08
46. Invited speaker, AI & Public Policy Symposium Tsinghua University, Beijing, China	2017/07
47. Invited participant, Kaifeng Institute on Geometry and Statistical Learning Swarma Club, Beijing, China	2017/07
48. Symposium for the Society of Young Network Scientists, NetSci 2017 Indianapolis, IN	2017/06
49. NetSci 2017: International Workshop and Conference on Network Science Indianapolis, IN	2017/06
50. Seminar, Northwestern Institute on Complex Systems	2017/05
51. Seminar, Kellogg MORS Macro Brown Bag	2017/05
52. Speaker, Kellogg-Booth Student Symposium, Chicago, IL	2017/04
53. Speaker, Chicago Area SIAM Student Conference, Chicago, IL	2017/04

ACADEMIC
SERVICE

Organizer

- Summer Institute in Computational Social Science (SICSS), Chicago site 2021

Program Committee

- International ACM Conference on Web Science (WebSci) 2022
- International World Wide Web Conference (TheWebConf) 2021-2022
- International AAAI Conference on Web and Social Media (ICWSM) 2021-2022
- *Best Program Committee Member Award* (2021)

Referee

- Scientific Reports 2017
- PLOS One 2017-2021
- Europhysics Letters 2018-2019
- *Distinguished Reviewer Award* (2018)
- Physica A: Statistical Mechanics and its Applications 2018
- Journal of Informetrics 2017-2019
- *Outstanding Reviewer Award* (2018)
- Scientometrics 2021
- Journal of the Association for Information Science and Technology 2021
- Science and Engineering Ethics 2022
- EPJ Data Science 2021-2022
- PeerJ Computer Science 2019-2020
- Social Network Analysis and Mining 2019-2020
- AI & Society: Knowledge, Culture and Communication 2020
- IEEE Transactions on Network Science and Engineering 2018
- IEEE Transactions on Big Data 2020
- ACM Web Science Conference 2020
- International Conference on Computational Social Science 2020
- Annual Meeting of the Academy of Management 2020-2021
- *Best Reviewer Award, Technology and Innovation Management* (2021)

IN THE PRESS

List of selected media coverage

Adaptability and the pivot penalty in science and technology

- *New things under the sun*: Building a new research field

Potentially long-lasting effects of the pandemic on scientists

- *Forbes*: The bad news, good news, bad news about COVID's impact on scientific research
- *Science*: The pandemic's slowing of research productivity may last years
- *Nature*: The COVID pandemic has harmed researcher productivity – and mental health
- *Scientific American*: A high-speed scientific hive mind emerged from the COVID pandemic
- *Physics World*: New non-COVID research projects plunge by a third since the start of the pandemic
- *GenomeWeb*: Pandemic, productivity, and optimism
- Other coverages include ScienMag, Lab Manager, Medical News, and Scitech Daily.

Coevolution of policy and science during the pandemic

- *The Scientist*: WHO leads in using solid science to draft COVID-19 policy
- *EurekAlert*: Policymakers draw heavily from highly cited COVID-19 science
- *Kellogg Insight*: How well does COVID public policy align with science?
- Other coverages include Science Policy News, ScienMag, Lab Manager, Tyee and FROMTBOT.

Unequal effects of the COVID-19 pandemic on scientists

- *Forbes*: COVID's surprising toll on careers of women scientists
- *Forbes*: COVID-19's effects on women in science intensify disparities
- *The Atlantic*: How science beat the virus
- *Times Higher Ed*: Pandemic lockdown holding back female academics, data show
- *Times Higher Ed*: Childcare the key limit on scientists' pandemic working hours
- *Inside Higher Ed*: University research: a time of disparate change
- *Inside Higher Ed*: Keeping COVID-19 from sidelining equity
- *Inside Higher Ed*: Implementing pandemic equity measures for faculty
- *Scientific American*: Women in science may suffer lasting career damage from COVID-19
- *Scientific American*: COVID has laid bare the inequities that face mothers in STEM
- *Science*: Pandemic hits scientist parents hard
- *The Scientist*: Pandemic pressures may drive young scientists away from autism research
- *AAAS*: Institutions must support minority researchers impacted by COVID-19
- *Wire*: COVID-19 changed scientists' research methods, will this change science itself?
- *EurekAlert*: Pandemic disproportionately affects scientists with young children
- *Kellogg Insight*: The pandemic has slashed scientists' productivity
- Other coverages include Medium, Spectrum News, Science Policy News, ThePaper.cn, Deccan Herald, Lab Manager, ScienMag, Oxford Student, Phys.org, Psychology Today, ASBMB Today, Marketplace, Chemistry Views and Chemistry World.

Scientific elite revisited: Patterns of productivity, collaboration, authorship and impact

- *Daily Mail*: The Nobel curse is REAL
- *The Times*: Scientists fall foul of Nobel curse
- Other coverages include Phys.org and Chemistry World.

Quantifying the dynamics of failure across science, startups and security

- *Inc.*: 5 ways to avoid startup failure by increasing your team's learning speed
- *Fast Company*: Science reveals the tipping point between success and failure
- *Global Advisors*: Why failing fast is critical if you want to eventually win
- *Washington Post*: The lasting lesson of this Super Bowl: failure is necessary
- *Forbes*: Don't fail fast – fail smart
- *MIT Technology Review*: How the data mining of failure could teach us the secrets of success
- *Harvard Business Review*: The tipping point between failure and success
- *Scientific American*: Failure found to be an “essential prerequisite” for success?
- *Medium*: Ignite success sooner: 2 ways to fail better
- *Science Daily*: Failure prognosis: Data science predicts which failures will ultimately succeed
- *Business Insider*: Researchers found a key reason certain people succeed while others fall behind, and it starts with learning from past mistakes
- *Communications of ACM*: How the data mining of failure could teach us the secrets of success
- *Lancet*: Offline: It's time to prepare your anti-CV
- *Kellogg Insight*: Why do some people succeed after failing while others continue to flounder?
- Other coverages include Science Policy News, Lab Manager, YCombinator Hacker News, China.org, Xinhua, News Ghana, Slate France, internetactu, ZAP, Sohu News and Phys.org.

Nobel laureates are almost the same as us

- *Physics Today*: The Nobel Prize in physics: The papers
- *Kellogg Insight*: Nobel Prize winners – They're just like us!
- *Inside Science*: Getting ready for the 2019 Nobel Prizes