Yian Yin

AWARDS • Best Reviewer, ICWSM: International AAAI Conference on Web and Social Media 20 • Rising Star in Data Science (Spotlight), University of Chicago 20 • Conference Scholarship, Network Science Society Conference 20 • Distinguished Reviewer, Europhysics Letters 20 • Outstanding Reviewer, Journal of Informetrics 20 • Young Network Scientist Award, Society of Young Network Scientists 20 • Graduate Fellowship, Northwestern University 20 • 1st Prize, China Mathematical Olympiad 20 RESEARCH Computational Social Science, Science of Science, Learning Curves, Complex Systems My research takes a multidisciplinary approach by integrating theoretical insights from sociolo and economics of innovation, analytical tools from data and network science, and modeling techn from complex systems to understand how novel ideas are discovered and leveraged by individual and organizations. My current work examines various fundamental elements in innovation lifecyce	CONTACT	Northwestern University			
EDUCATION Northwestern University, Evanston, IL, USA Ph.D., Industrial Engineering and Management Sciences Committee: Noshir Contractor ^{that} , Dashun Wange ^{co-char} , Jorge Nocedal M.Sc., Industrial Engineering and Management Sciences Committee: Noshir Contractor ^{that} , Dashun Wange ^{co-char} , Jorge Nocedal M.Sc., Industrial Engineering and Management Sciences Peking University, Beijing, China B.Sc., Statistics School of Mathematical Sciences B.Ec., Economics National School of Development Summer Institute in Computational Social Science, Chicago, IL, USA Jun 20 ACADEMIC Northwestern University, Evanston, IL, USA Graduate Research Assistant, Kellogg Center for Science of Science and Innovation Microsoft Research, Redmond, WA, USA Visiting Researcher, Microsoft Academic Graph Analytics Pennsylvania State University, University Park, PA, USA Summer Visiting Student, College of Information Sciences and Technology Peking University, Beijing, China Undergraduate Research Assistant, Center for Information Sciences AWARDS Best Reviewer, ICWSM: International AAAI Conference on Web and Social Media Undergraduate Research Assistant, Center for Information Sciences Best Reviewer, Journal of Informetrics Outstanding Reviewer, Furophysics Letters Outstanding Reviewer, Journal of Informetrics Young Network Scientist Award, Society of Young Network Scientists Outstanding Reviewer, Journal of Informetrics Young Network Scientist Award, Society of Young Network Scientists 20 Graduate Fellowship, Northwestern University Prize, China Mathematical Olympiad RESEARCH Computational Social Science, Science of Science, Learning Curves, Complex Systems My research takes a multidisciplinary approach by integrating theoretical insights from sociolo and economics of innovation, analytical tools from data and network science, and modelling techn from complex systems to understand how novel ideas are discovered and leveraged by individua and organizations. My current work examines various fundamental elements in innovation lifecyc	Information	Northwestern Institute on Complex Systems	yianyin@u.northweste	ern.edu	
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Ph.D., Industrial Engineering and Management Sciences McCormick School of Engineering and Applied Sciences Committee: Noshir Contractor/mar. Dashun Wange-orbair, Jorge Nocedal M.Sc., Industrial Engineering and Management Sciences Peking University, Beijing, China B.Sc., Statistics School of Mathematical Sciences B.Ec., Economics National School of Development Summer Institute in Computational Social Science, Chicago, IL., USA Jun 20 ACADEMIC POSITIONS On Threester University, Evanston, IL., USA Graduate Research Assistant, Kellogg Center for Science of Science and Innovation Microsoft Research, Redmond, WA, USA Visiting Researcher, Microsoft Academic Graph Analytics Pennsylvania State University, University Park, PA, USA Summer Visiting Student, College of Information Sciences and Technology Peking University, Beijing, China Undergraduate Research Assistant, Center for Information Sciences AWARDS **Best Reviewer, ICWSM: International AAAI Conference on Web and Social Media 20 **Rising Star in Data Science (Spotlight), University of Chicago 20 **Conference Scholarship, Network Science Society Conference 20 **Distinguished Reviewer, Europhysics Letters 20 **Outstanding Reviewer, Furophysics Letters 20 **Outstanding Reviewer, Furophysics Letters 20 **Outstanding Reviewer, Furophysics Letters 20 **Outstanding Reviewer, Journal of Informetrics 20 **Outstanding Reviewer, Journal of Informetrics 20 **Outstanding Reviewer, Furophysics Letters 20 **Outstanding Reviewer, Furophysics Letters 20 **Outstanding Reviewer, Journal of Informetrics 20 **Outstanding Reviewer, Journal of Informetrics 20 **Outstanding Reviewer, Furophysics Letters 20 **Outstan		600 Foster Street, Evanston, IL 60208	Updated Jul	y 2021	
McCormick School of Engineering and Applied Sciences Committee: Noshir Contractor ^{chair} , Dashun Wang ^{co-chair} , Jorge Nocedal M.Sc., Industrial Engineering and Management Sciences Peking University, Beijing, China B.Sc., Statistics School of Mathematical Sciences B.Ec., Economics National School of Development Summer Institute in Computational Social Science, Chicago, IL, USA Jun 20 ACADEMIC Northwestern University, Evanston, IL, USA Graduate Research Assistant, Kellogg Center for Science of Science and Innovation Microsoft Research, Redmond, WA, USA Visiting Researcher, Microsoft Academic Graph Analytics Pennsylvania State University, University Park, PA, USA Summer Visiting Student, College of Information Sciences and Technology Peking University, Beijing, China Undergraduate Research Assistant, Undergraduate Research Assistant, Awards Best Reviewer, ICWSM: International AAAI Conference on Web and Social Media Rising Star in Data Science (Spotlight), University of Chicago Conference Scholarship, Network Science Society Conference Distinguished Reviewer, Europhysics Letters Journal Network Scientist Award, Society Of Young Network Scientists Young Network Scientist Award, Society of Young Network Sciences, and modeling techn from complex systems understand how novel ideas are discovered and leveraged by individua and organizations. My current work examines various fundamental elements in innovation lifecyc	EDUCATION	Northwestern University, Evanston, IL, USA			
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B.Sc., Statistics School of Mathematical Sciences B.Ec., Economics National School of Development Summer Institute in Computational Social Science, Chicago, IL, USA Jun 20 ACADEMIC Northwestern University, Evanston, IL, USA Graduate Research Assistant, Kellogg Center for Science of Science and Innovation Microsoft Research, Redmond, WA, USA Visiting Researcher, Microsoft Academic Graph Analytics Pennsylvania State University, University Park, PA, USA Summer Visiting Student, College of Information Sciences and Technology Peking University, Beijing, China Undergraduate Research Assistant, Center for Information Sciences AWARDS Best Reviewer, ICWSM: International AAAI Conference on Web and Social Media Rising Star in Data Science (Spotlight), University of Chicago Conference Scholarship, Network Science Society Conference Distinguished Reviewer, Europhysics Letters Outstanding Reviewer, Durnal of Informetrics Young Network Scientist Award, Society of Young Network Scientists Graduate Fellowship, Northwestern University Tif Prize, China Mathematical Olympiad Computational Social Science, Science of Science, Learning Curves, Complex Systems My research takes a multidisciplinary approach by integrating theoretical insights from sociolo and economics of innovation, analytical tools from data and network science; and modeling techn from complex systems to understand how novel ideas are discovered and leveraged by individual and organizations. My current work examines various fundamental elements in innovation lifecyc				c 2017	
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Visiting Researcher, Microsoft Academic Graph Analytics Pennsylvania State University, University Park, PA, USA Summer Visiting Student, Jul 2015 to Oct 20 College of Information Sciences and Technology Peking University, Beijing, China Undergraduate Research Assistant, May 2014 to Jun 20 Center for Information Sciences AWARDS **Best Reviewer*, ICWSM: International AAAI Conference on Web and Social Media 20 **Rising Star in Data Science (Spotlight), University of Chicago 20 **Conference Scholarship, Network Science Society Conference 20 **Distinguished Reviewer*, Europhysics Letters 20 **Distinguished Reviewer*, Journal of Informetrics 20 **Young Network Scientist Award*, Society of Young Network Scientists 20 **Graduate Fellowship*, Northwestern University 20 **Ist Prize*, China Mathematical Olympiad 20 RESEARCH Computational Social Science, Science of Science, Learning Curves, Complex Systems My research takes a multidisciplinary approach by integrating theoretical insights from sociolo and economics of innovation, analytical tools from data and network science*, and modeling techn from complex systems to understand how novel ideas are discovered and leveraged by individuation and organizations. My current work examines various fundamental elements in innovation lifecyce		Kellogg Center for Science of Science and Innovation			
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and organizations. My current work examines various fundamental elements in innovation lifecyc					
		from dynamics of innovation failures to emergence of breakthrough technology, from global research			
funding landscape to public uses of science in policy, media, and marketplace applications.		funding landscape to public uses of science in policy, media, and marketplace applications.			

PUBLICATIONS

- SSRN top 10 download lists: [1], [2] and [8]
- #1 paper on arXiv today: [4] (physics and society)
- Highlighted on journal homepage (hero proportion): [1] and [2]
- Altmetric top 100 annual list: [2] (#27 out of 3.4M publications in 2020)
- ¶ denotes equal contributions. Boldface denotes **representative works**.

PEER-REVIEWED [1] **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

- [2] 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
- [3] 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
- [4] 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
- [5] 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
- [6] 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
- [7] **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

WORKING PAPERS

- [8] **Yian Yin**, Yuxiao Dong, Kuansan Wang, Dashun Wang & Benjamin F. Jones **Science as a public good: Public use and funding of science**[Under revision] Current version: *NBER* Working Paper w28748
- [9] Ryan R. Hill[¶], **Yian Yin**[¶], Carolyn Stein[¶], Dashun Wang & Benjamin F. Jones Adaptability and the pivot penalty in science
- [10] Jian Gao, **Yian Yin**, Kyle R. Myers, Karim R. Lakhani & Dashun Wang Potentially long-lasting effects of the pandemic on scientists

SELECTED WORK IN PROGRESS

- [11] **Yian Yin** & Dashun Wang Universal limits of learning
- [12] **Yian Yin** & Dashun Wang Quantifying record-breaking dynamics in science and technology
- [13] Suman K. Maity, **Yian Yin**, Zishan Gu & Dashun Wang Grants and research outputs
- [14] Alexander C. Furnas, Jian Gao, **Yian Yin** & Dashun Wang The political mobilization of scientists in the United States

PATENTS	[15]	Dashun Wang, Yian Yin , Yang Wang & James A. Evans (2021, published System and method to predict success based on analysis of failure US Patent Application 17/061,112	ed)
GRANTS	[1]	SICSS Seed Research Grant, \$2,000 Structures and dynamics of package ecosystems	Principal Investigator 2018/08
	[2]	Minerva Research Initiative, \$309,562 Quantifying the effects of COVID-19 pandemic on scientific workforce	Key Personnel 2020/05
	[3]	Social Science Research Council, \$8,200 4 th Summer Institute in Computational Social Science Chicago	Organizer 2021/02
	[4]	Peter G. Peterson Foundation, \$150,000 Developing a quantitative framework to track and assess state-level policy responses to the COVID-19 pandemic	Key Personnel 2021/04
TALKS	1.	International Conference on Computational Social Science (IC ² S ²) Zürich, Switzerland (online)	2021/07
	2.	Networks 2021: A Joint Sunbelt and NetSci Conference Washington, DC (online)	2021/07
	3.	Seminar, Stanford METRICS International Forum Meta-research Innovation Center, Standford University (online)	2021/04
	4.	Invited speaker, Webinar, Saving Curies Series	2021/03
	5.	Invited speaker, Webinar, Swarma Club	2021/01
	6.	Spotlight speaker , Rising Stars in Data Science Workshop Center for Data and Computing, University of Chicago (online)	2021/01
	7.	The 7th Satellite on Quantifying Success, NetSci 2020	2020/09
	8.	Invited speaker, Webinar ML Collective	2020/09
	9.	International Conference on Computational Social Science (IC^2S^2) Boston, MA (online)	2020/07
	10.	Seminar, Northwestern Institute on Complex Systems	2020/06
	11.	Invited speaker, Webinar, Aggregate Intellect (ai.science)	2020/02
	12.	Invited speaker, Northwestern Data Science Night	2020/02
	13.	Invited speaker , Michigan Institute for Data Science Symposium University of Michigan, Ann Arbor, MI	2019/11
	14.	Seminar, Northwestern Institute on Complex Systems	2019/10
	15.	Invited speaker , Institute for Research on Innovation & Science Summi University of Michigan, Ann Arbor, MI	it 2019/09
	16.	Invited speaker , Great Lakes Data Science Workshop University of Notre Dame, Notre Dame, IN	2019/09
	17.	International Conference on Computational Social Science (${\rm IC}^2{\rm S}^2$) Amsterdam, Netherlands	2019/07

18.	NetSci 2019: International Workshop and Conference on Network Science Burlington, VT	2019/05
19.	Invited speaker , Seminar, Center for Neuroscience, Zhejiang University Hangzhou, Zhejiang, China	2018/12
20.	International Conference on Computational Social Science (IC^2S^2) Evanston, IL	2018/07
21.	Summer Institute in Computational Social Science (SICSS) Chicago, IL	2018/06
22.	Seminar, Northwestern IEMS-OM Collaborative Workshop	2018/04
23.	Speaker, Northwestern Computational Research Day	2018/04
24.	Seminar, Northwestern SIAM Bridging the Gap	2017/11
25.	Invited speaker , AI & Public Policy Symposium Tsinghua University, Beijing, China	2017/07
26.	Speaker, Northwestern Current Research & Future Careers Symposium Highest scored contribution	2017/08
27.	Invited participant , Kaifeng Institute on Geometry and Statistical Learning Swarma Club, Beijing, China	2017/07
28.	Symposium for the Society of Young Network Scientists, NetSci 2017 Indianapolis, IN	2017/06
29.	NetSci 2017: International Workshop and Conference on Network Science Indianapolis, IN	2017/06
30.	Seminar, Northwestern Institute on Complex Systems	2017/05
31.	Lightning talk, Kellogg MORS Macro Brown Bag	2017/05
32.	Speaker, Kellogg-Booth Student Symposium, Chicago, IL	2017/04
33.	Speaker, Chicago Area SIAM Student Conference, Chicago, IL	2017/04
Su	mmer Institute in Computational Social Science (SICSS), Chicago, IL	Instructor

TEACHING

Lectures in Computational Social Science

- SICSS-Chicago 2021, 30 students from social and computational science.
- Tutorials in API data collection, web scraping and mass collaborations.
- Led group exercise sessions for hands-on programming practice.
- Held office hours to provide specific supervision on group projects.

Northwestern University, Evanston, IL

Teaching Assistant

MBA course: Social Dynamics and Network Analytics (MORS 457)

- 5 quarters (2017-2020), MBA course at Kellogg School of Management.
- Developed tutorial sessions and assignments for network analysis with Gephi.
- Organized Genius Bar to help students with idea pitch and data collection.
- Held office hours to provide specific supervision on final projects.

EMBA core course: Statistical Decision Analysis (MECNX 434)

- Winter 2018, EMBA core course at Kellogg School of Management.
- Graded individual and group assignments.

Data Science and Programming Workshops

- Summer 2018, serial workshop by Northwestern Research Computing.
- In-class instructions with Python and Jupyter Notebooks.

MENTORING	Predoctoral fellow (undergraduate) • Zishan Gu (Software engineering, Sun Yat-sen University)	2020
	 Zishan Gu (Software engineering, Sun Tat-sen University) Zihang Lin (Computer science honor class, Fudan University) 	2021-2022
	 Zifiang Liu (Physics honors program, Xi'an Jiaotong University) 	2021-2022
	• Zheng Liu (Physics honors program, Ar an Jiaotong University)	2021-2022
ACADEMIC	Organizer	
SERVICE	• Summer Institute in Computational Social Science Chicago (SICSS)	2021
	Volunteer	2010
	• International Conference on Computational Social Science (IC ² S ²)	2018
	Program Committee	
	• International World Wide Web Conference (TheWebConf)	2021
	• International AAAI Conference on Web and Social Media (ICWSM)	2021
	Referee	
	Scientific Reports	2017
	• PLOS One [3 reviews]	2017-2021
	• Europhysics Letters [2 reviews]	2018
	• Physica A: Statistical Mechanics and its Applications [2 reviews]	2018
	• Scientometrics	2021
	• Journal of Informetrics [3 reviews]	2017-2019
	• Journal of the Association for Information Science and Technology	2021
	IEEE Transactions on Network Science and Engineering	2018
	IEEE Transactions on Big Data	2020
	• PeerJ Computer Science [2 reviews]	2019-2020
	• Social Network Analysis and Mining [2 reviews]	2019-2020
	 AI & Society: Knowledge, Culture and Communication 	2020
	• ACM Web Science Conference [2 reviews]	2020

IN THE PRESS List of selected media coverage

[1] Coevolution of policy and science during the pandemic

• Annual Meeting of the Academy of Management [10 reviews]

• The Scientist: WHO leads in using solid science to draft COVID-19 policy

• International Conference on Computational Social Science [3 reviews]

2020

2020-2021

- EurekAlert: Policymakers draw heavily from highly cited COVID-19 science
- Kellogg Insight: How well does COVID public policy align with science?
- The Tyee: Policymakers use new and highly-cited science
- FROMTBOT: Are our COVID-19 policies grounded in quality science?
- Other coverages include Science Policy News, ScienMag, Lab Manager.

[2] 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
- 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
- AAAS: Institutions must support minority researchers impacted by COVID-19
- Wire: COVID-19 changed scientists' research methods, will this change science itself?
- Oxford Student: Women are still disadvantaged in STEM and the pandemic is only making it
 worse
- EurekAlert: Pandemic disproportionately affects scientists with young children
- Phys.org: Pandemic disproportionately affects scientists with young children
- Psychology Today: The myth of COVID-19 as the "great equalizer"
- ASBMB Today: Early-career scientists need pandemic relief funds
- Marketplace: Moms are reducing work hours 4-5 times more than dads during pandemic
- Kellogg Insight: The pandemic has slashed scientists' productivity
- Chemistry Views: The pandemic does not affect all researchers equally
- Chemistry World: Underrepresented scientists hardest hit by pandemic
- Other coverages include Science Policy News, ThePaper.cn, Deccan Herald, Lab Manager, ScienMag.

[3] 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
- Phys.org: Nobel prizewinners have different career patterns than peers
- Chemistry World: Nobel laureates see a dip in the influence of their work after winning prize

[4] 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 the ACM: How the data mining of failure could teach us the secrets of success
- Lancet: Offline: It's time to prepare your anti-CV
- Phys.org: Failure prognosis: Data science predicts which failures will ultimately succeed
- Kellogg Insight: Why do some people succeed after failing while others continue to flounder?
- News Adobe: Researchers find diverging paths between failure and success after first setback
- HostingTech VN: Is it possible to use analytical data to fail and succeed?
- Other coverages include Science Policy News, Lab Manager, YCombinator Hacker News, China.org, Xinhua, News Ghana, Slate France, internetactu, ZAP, Sohu News.

[5] 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