

Aaron Clauset

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RESEARCH INTERESTS	Network science (methods, theories, applications); Data science, statistical inference, machine learning; Models and simulations; Collective dynamics and complex systems; Rare events, power laws and forecasting; Computational social science; Computational biology and biological computation.	
EDUCATION	Ph.D. Computer Science, University of New Mexico (with distinction) B.S. Physics, Haverford College (with honors and concentration in Computer Science)	2002 – 2006 1997 – 2001
ACADEMIC POSITIONS	Associate Professor, Computer Science Dept., <i>University of Colorado, Boulder</i> Core Faculty, BioFrontiers Institute, <i>University of Colorado, Boulder</i> External Faculty, <i>Santa Fe Institute</i> Affiliated Faculty, Ecology & Evo. Biology Dept., <i>University of Colorado, Boulder</i> Affiliated Faculty, Applied Mathematics Dept., <i>University of Colorado, Boulder</i> Affiliated Faculty, Information Dept., <i>University of Colorado, Boulder</i> Assistant Professor, Computer Science Dept., <i>University of Colorado, Boulder</i> Omidyar Fellow, <i>Santa Fe Institute</i>	2018 – present 2010 – present 2012 – present 2011 – present 2012 – present 2015 – present 2010 – 2018 2006 – 2010
EDITORIAL POSITIONS	Deputy Editor, <i>Science Advances</i> , AAAS Associate Editor, <i>Science Advances</i> , AAAS Associate Editor, <i>Journal of Complex Networks</i> , Oxford University Press	2017 – present 2014 – 2017 2012 – 2017
HONORS & AWARDS (SELECTED)	Provost Faculty Achievement Award, U. Colorado, Boulder Top 20 Teachers, College of Engineering, U. Colorado, Boulder Erdős-Rényi Prize in Network Science NSF CAREER Award Kavli Fellow Santa Fe Institute Public Lecturer (http://bit.ly/I6t9gf) Graduation Speaker, U. New Mexico School of Engineering Convocation Outstanding Graduate Student Award, U. New Mexico School of Engineering	2019 2016 2016 2015 2014 2010 2006 2006
GOOGLE SCHOLAR	scholar.google.com/citations?user=e7VI.HcAAAAJ * indicates an undergraduate coauthor; ° indicates equal contribution	
MANUSCRIPTS UNDER REVIEW	N. J. Cordaro, A. J. Kavran, M. Smallegan, M. Palacio, N. Lammer, T. S. Brant, V. DuMont, N. Doherty Garcia, S. Miller, T. Jourabchi, S. L. Sawyer, and A. Clauset , “Optimizing polymerase chain reaction (PCR) using machine learning.” Submitted (2021). (Preprint at biorxiv.org/content/10.1101/2021.08.12.455589v1.full) A. C. Morgan, N. LaBerge, D. B. Larremore, M. Galesic, and A. Clauset , “Socioeconomic roots of academic faculty.” Submitted (2021). (Preprint at osf.io/preprints/socarxiv/6wjxc)	
PUBLICATIONS (REFEREED)	E. Lee, A. Clauset [°] , and D. B. Larremore [°] , “The dynamics of faculty hiring networks.” <i>EPJ Data Science</i> 10 , 48 (2021). (Preprint at arxiv:2105.02949)	

H. Hosseinmardi, A. Ghasemian, **A. Clauset**, M. Mobius, D. M. Rothschild, and D. J. Watts, “Examining the consumption of radical content on YouTube.” *Proc. Natl. Acad. Sci. USA* **118**(32), e2101967118 (2021). (Preprint at [arxiv:2011.12843](https://arxiv.org/abs/2011.12843))

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K. R. Jordan, M. J. Sikora, J. E. Slansky, A. Minic, J. K. Richer, M. R. Moroney, J. C. Costello, **A. Clauset**, K. Behbakht, T. R. Kumar, and B. G. Bitler, “The capacity of the ovarian cancer tumor microenvironment to integrate inflammation signaling conveys a shorter disease-free interval.” *Journal of Clinical Research* **26**(23), 6362–6373 (2020). (Preprint at doi.org/10.1101/2020.04.14.041145)

A. Ghasemian, H. Hosseinmardi, A. Galstyan, E. M. Airolidi, and **A. Clauset**, “Stacking models for nearly optimal link prediction in complex networks.” *Proc. Natl. Acad. Sci. USA* **117**(38), 23393–23400 (2020). (Preprint at [arxiv:1909.07578](https://arxiv.org/abs/1909.07578)) [Chosen for an invited Commentary editorial]

S. F. Way, A. C. Morgan, D. B. Larremore^o, **A. Clauset**^o, “Productivity, prominence, and the effects of academic environment.” *Proc. Natl. Acad. Sci. USA* **116**(22), 10729–10733 (2019).

A. Ghasemian, H. Hosseinmardi, and **A. Clauset**, “Evaluating overfit and underfit in models of network community structure.” *IEEE Trans. Knowledge and Data Engineering* **32**(9), 1722–1735 (2019). (Preprint at [arxiv:1802.10582](https://arxiv.org/abs/1802.10582))

S. F. Way, S. Gil, I. Anderson, and **A. Clauset**, “Environmental changes and the dynamics of musical identity.” *Proc. 13th International AAAI Conference on the Web and Social Media (ICWSM)*, **13**, 527–536 (2019). (Preprint at [arxiv:1904.04948](https://arxiv.org/abs/1904.04948))

A. D. Broido and **A. Clauset**, “Scale-free networks are rare.” *Nature Communications* **10**, 1017 (2019). (Preprint at [arxiv:1801.03400](https://arxiv.org/abs/1801.03400)) [19th most-read article in Physics in *Nat. Comms.* in 2019] [Chosen for a special Comment editorial]

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- L. Peel, D. B. Larremore, and **A. Clauset**, “The ground truth about metadata and community detection in networks.” *Science Advances* **3**(5), e1602548 (2017). (Preprint at [arxiv:1608.05878](https://arxiv.org/abs/1608.05878))
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Annals of Applied Statistics **8**(1), 89–119 (2014). (Preprint at [arxiv:1208.3524](https://arxiv.org/abs/1208.3524))

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[Subject of a special session at ASA Joint Statistical Meetings, Montreal Canada, 5 August 2013]

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A. Clauset, C. R. Shalizi and M. E. J. Newman, “Power-law distributions in empirical data.” *SIAM Review* **51**(4), 661–703 (2009). (Preprint at [arxiv:0706.1062](#))

D. Achlioptas, **A. Clauset**, D. Kempe and C. Moore, “On the bias of traceroute sampling: Or, power-law degree distributions in regular graphs.” *Journal of the ACM* **56**(4), article 21, 28 pages (2009). (Preprint at [arxiv:cond-mat/0503087](#)) [journal version of STOC 2005 paper]

N. Eagle, J. Quinn and **A. Clauset**, “Methodologies for continuous cellular tower data analysis.” *Proc. 7th International Conference on Pervasive Computing* (Pervasive 2009), 342–353.

A. Clauset and S. Redner, “Evolutionary model of species body mass diversification.” *Physical Review Letters* **102**, 038103 (2009). (Preprint at [arxiv:0808.4014](#))

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A. Clauset, H. G. Tanner, C. T. Abdallah and R. H. Byrne, “Controlling across complex networks – Emerging links between networks and control.” *Annual Reviews in Control* **32**, 183–192 (2008).

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A. Clauset, M. Young and K. S. Gleditsch, “On the frequency of severe terrorist attacks.” *Journal of Conflict Resolution* **51**(1), 58–88 (2007). (Preprint at [arxiv:physics/0606007](#))

V. Kalapala, V. Sanwalani, **A. Clauset** and C. Moore, “Scale invariance in road networks.” *Physical Review E* **73**, 026130 (2006). (Preprint at [arxiv:physics/0510198](#))

J. T. Ayers, **A. Clauset**, J. D. Schmitt, L. P. Dwoskin and P. A. Crooks, “Molecular modeling of mono- and bis-quaternary ammonium salts as ligands at the $\alpha 4\beta 2$ nicotinic acetylcholine receptor subtype using nonlinear techniques.” *American Association of Pharmaceutical Scientists Journal* **7**(3), E678–85 (2005).

Y. D. Xiao, **A. Clauset**, R. Harris, E. Bayram, P. Santago II, and J. D. Schmitt, “Supervised self-organizing maps in QSAR I: Robust behavior with underdetermined datasets.” *Journal of Chemical Information and Modeling* **46**(6), 1749–1758 (2005).

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A. Clauset and C. Moore, “Accuracy and scaling phenomena in Internet mapping.” *Physical Review Letters* **94**, 018701 (2005). (Preprint at [arxiv:cond-mat/0410059](#))

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S. Merritt and **A. Clauset**, “Social network dynamics in a massive online game: Network turnover, non-densification, and team engagement in Halo Reach.” *Eleventh Workshop on Mining and Learning with Graphs (MLG)* (2013). (Preprint at [arxiv:1306.4363](#))

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OTHER
PUBLICATIONS

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PATENTS	A. C. Morgan, S. F. Way, and A. Clauset , “System and methods for crawling web pages and parsing relevant information stored in web pages.” U.S. Patent Application 20200293581, Number 62/593,804 (2020).	
INDUSTRY CONSULTING	Scientific & Technical Consultant, <i>Respond Software Inc.</i> , Mountain View CA Scientific & Technical Consultant, <i>FullContact Inc.</i> , Denver CO Scientific & Technical Consultant, <i>Institute for Defense Analysis</i> , Alexandria VA Corporate Advisory Board, <i>33across LLC</i> , New York NY Scientific & Technical Consultant, <i>33across LLC</i> , New York NY Strategy & Management Consultant, <i>FischerJordan LLC</i> , New York NY	2017 2015 – 2017 2010 – 2014 2008 – 2012 2007 – 2012 2005
GRANTS (PI OR CO-PI)	“NRT: Integrated Data Science (Int dS): Teams for Advancing Bioscience Discovery.” co-PI , with Tom Cech (PI; Colorado), Robin Dowell (co-PI; Colorado), Eric Vance (co-PI; Colorado) and Manuel Lladser (co-PI; Colorado) NSF DGE, \$3,000,000 “Evaluating and Maximizing Fairness in Information Flow on Networks.” PI , with Suresh Venkatasubramanian (PI; Utah), Carlos E. Scheidegger (PI; Arizona), and Sorelle Friedler (PI; Haverford) NSF CISE III, \$1,173,487 “A New Synthesis for the Science of Science.” PI NSF SBE SMA Conference, \$40,418 “Ovarian cancer ascites: A glimpse of therapeutic response and recurrence.” co-PI , with Kian Behbakht (PI; Anschutz), Benjamin Bitler (PI; Anschutz), Raj Kumar (co-PI; Anschutz), Jennifer Richer (co-PI; Anschutz), Jill Slansky (co-PI; Anschutz), Matthew Sikora (co-PI; Anschutz), Kim Jordan (co-PI; Anschutz) Comprehensive Cancer Center Developmental Therapeutics Program Multi-PI Grant, University of Colorado Denver, \$100,000 “Mapping the structure and dynamics of the scientific ecosystem.” PI , with Daniel B. Larremore (PI; Colorado), Mirta Galesic (co-PI; Santa Fe), and Jennifer Dunne (co-PI; Santa Fe) DoD and AFOSR, MINERVA, \$2,568,889 “Leveraging machine learning to improve biological protocol accuracy.” PI , with Sara Sawyer (co-PI; Colorado) University of Colorado, Research & Innovation Seed Grant, \$50,000 “Academic hiring networks and scientific productivity across disciplines.” PI , with Daniel B. Larremore (PI; Santa Fe) and Mirta Galesic (co-PI; Santa Fe) NSF SBE, \$550,000 “CAREER: Hierarchical probabilistic models for networks with rich data in scientific domains.” PI NSF CISE, \$550,000 “Extracting diagnostic signals from human microbiome data.”	2020 – 2025 2020 – 2023 2020 – 2022 2020 2019 – 2022 2018 – 2020 2016 – 2020 2015 – 2020

	PI , with Ken Krauter (co-PI; Colorado) and Matt McQueen (co-PI; Colorado) University of Colorado, Butcher Seed Grant Award, \$70,000	2014 – 2016
	“High-throughput ecosystem analysis and design.” co-PI , with Rob Knight (PI; Colorado), Ryan Gill (co-PI; Colorado), Noah Fierer (co-PI; Colorado), Manuel Lladser (co-PI; Colorado) and Robin Dowell (co-PI; Colorado) Keck Foundation, \$1,000,000	2013 – 2014
	“An alignment-free network approach to analyzing highly recombinant malaria parasite antigens.” PI , with Caroline Buckee (PI; Harvard) NIH/NIGMS, R21, \$286,485	2013 – 2016
	“EAGER: Understanding technological change from the map of capabilities.” co-PI , with Hyejin Youn (PI; Santa Fe Institute) NSF SBE, \$152,500	2013 – 2017
	“Statistical inference for detecting structures and anomalies in networks.” PI , with Cris Moore (PI; Santa Fe Institute) and Mark Newman (PI; Michigan) DARPA and AFOSR, GRAPHS, \$2,924,396	2012 – 2015
	“Measuring the structure of research university networks.” PI Kauffman Foundation, \$53,000	2012 – 2013
	“Statistical inference and machine learning for complex networks.” co-PI , with Cris Moore (PI; Santa Fe Institute) and Mark Newman (PI; Michigan) McDonnell Foundation, \$417,576	2008 – 2012
GIFTS	Facebook Inc.	2015
(UNRESTRICTED)	Microsoft Inc.	2014
INVITED TALKS (RECENT)	<ul style="list-style-type: none"> Invited Speaker, Center for Theoretical and Evolutionary Genetics, University of California, Berkeley CA, 5 November 2021 Invited Speaker, Department of Statistics, University of Wisconsin, Madison WI, 20 October 2021 Invited Speaker, Institute for Cognitive Science, University of Colorado, Boulder CO, 18 October 2021 Invited Speaker, International Roundtable on Computational Social Science, Institute for Analytical Sociology (IAS), Norrköping, Sweden, 14 October 2021 Colloquium, Department of Integrated Physiology, University of Colorado, Boulder CO, 11 October 2021 Seminar, Department of Information Science, University of Colorado, Boulder CO, 22 September 2021 Invited Speaker, Data Science/Computational Social Science Seminar, University of Michigan, Ann Arbor MI, 9 September 2021 Invited Speaker, University of Vermont, Burlington VT, 3 September 2021 Invited Speaker, “Network Science: Statistical approaches and beyond” Invited Session, Joint Statistical Meetings, Seattle WA, 7–12 August 2021 Invited Speaker, Complexity Interactive, Santa Fe Institute, Santa Fe NM, 14 June 2021 Invited Speaker, GoldLab Symposium, Boulder CO, 14–15 May 2021 Invited Speaker, Mothers In Science Conference, 5 May 2021 Keynote Speaker, Computer Science Student Conference, University of New Mexico, Albuquerque NM, 31 March 2021 	

- Invited Speaker, Centro de Ciencias de la Complejidad, Universidad Nacional Autónoma de México, Mexico City, Mexico, 12 March 2021
- Invited Speaker, Network Science Working Group, University of Colorado Anschutz, Aurora CO, 17 February 2021
- 130 other invited talks, since 2004

ADVISING

Postdoctoral Fellows

- Dr. Katherine Wootton 2021 – present
- Dr. Eun Lee 2020 – present
- Dr. Samuel F. Way 2017 – 2019
- Dr. Andrea Berardi 2015 – 2016
- Dr. Daniel B. Larremore 2012 – 2015
- Dr. Leto Peel 2013 – 2015

Doctoral Students (all at Colorado)

- Nicholas LaBerge 2019 – present
Computer Science; co-advised with D. B. Larremore
- Alexander Ray 2021 – present
Computer Science
- Katherine Spoon 2020 – present
Computer Science; co-advised with D. B. Larremore
- Ian Van Buskirk 2019 – present
Computer Science; co-advised with D. B. Larremore
- Lucy Van Kleunen 2020 – present
Computer Science; co-advised with L. Dee
- Caroline Wendt 2021 – present
Computer Science
- Shimian (Sam) Zhang 2019 – present
Applied Mathematics; NSF GRF
- Andrew J. Kavran (PhD Biochemistry, and IQ Biology, co-advised with N. Ahn) 2021
Dissertation: *Intermittent drug treatment of BRAF^{V600E} melanoma cells delays resistance by adaptive resensitization to drug rechallenge*
- Allison C. Morgan (PhD Computer Science) 2021
Dissertation: *Quantifying structural inequalities in the academic workforce*
- Anna Broido (PhD Applied Mathematics, and IQ Biology) 2019
Dissertation: *Characterizing the tails of degree distributions in real-world networks*
- Amir Ghasemian (PhD Computer Science) 2018
Dissertation: *Limits of model selection, link prediction, and community detection*
- Nora Connor (PhD Computer Science, and IQ Biology) 2018
Dissertation: *Using data science to find interpretable answers for problems in ecology and political science*
- Abigail Z. Jacobs (PhD Computer Science) 2017
Dissertation: *Comparative, population-level analysis of social networks in organizations*
- Samuel F. Way (PhD Computer Science, and IQ Biology) 2017
Dissertation: *Systematic inequalities in the composition and productivity of Computer Science faculty*
- Lauren G. Shoemaker (PhD Ecology & Evolutionary Biology, and IQ Biology, co-advised with B. Melbourne) 2017
Dissertation: *Stabilizing and equalizing mechanisms alter community coexistence and macroevolutionary diversity patterns*
- Sears Merritt (PhD Computer Science) 2013
Dissertation: *Dynamics and structure in competitive social systems*

Masters Students (all at Colorado)

- Upasana Dutta (MS Computer Science) 2020 – present
- Trevor DiMartino (MS Computer Science) 2017
Thesis: *Ratchet mechanisms in macroevolutionary processes*
- Kansuke Ikehara (MS Computer Science) 2017
Thesis: *Structure of complex networks across domains*
- Christopher Aicher (BS/MS Applied Mathematics) 2014
Thesis: *The weighted stochastic block model*
- Pooneh Mortazavi (MS, Computer Science) 2013
Thesis: *Genome optimization and evolution modeling using genetic algorithm and GA-TRMR*
- Yogesh Virkar (MS, Computer Science) 2012
Thesis: *Power-law distributions and binned empirical data*

Undergraduate Students

- Skylar Martin (BS Computer Science, Colorado) 2020 – 2021
Thesis: *PhageOne: Inferring the grammar of bacteriophage genomes*
- Nicholas Cordaro (BS Biochemistry, Colorado) 2019 – 2020
- Christoph Uhl (BS Computer Science, Colorado) 2018 – 2020
- Alexander Ray (BS Computer Science, Colorado) 2017 – 2019
Thesis: *Scaling laws in empirical networks*
- McKenzie Weller (BS Computer Science, Colorado) 2016 – 2019
- Tetsumichi Umada (BS Computer Science, Colorado) 2016 – 2018
- Ellen Tucker (BS Mathematics, Colorado) 2015 – 2016
- Matthias Sainz (BS Computer Science, Colorado) 2014 – 2016
- Dominic Tonozzi (BS Computer Science, Colorado) 2014 – 2015
- Christopher Aicher (BS/MS Applied Mathematics, Colorado) 2011 – 2014
- Kenneth Sheedlo (BS Comp. Sci., Colorado; Discovery Learning Apprentice) 2011 – 2012
- Andrew Zizzi (BS Aerospace, Colorado; Discovery Learning Apprentice) 2011 – 2012
- Kristen Hargett (BS Applied Math., Colorado) 2011
- Zachary Newman (BS Math., Colorado; McNair Scholar & UROP) Summer 2011
- Abigail Jacobs (BS Math., Northwestern; REU) Summer 2010
- Amy Wesolowski (BS Math., C.o. Atlantic; REU) Summer 2010
- Benjamin Good (BS Physics, Swarthmore; REU) 2008 – 2010

High School Students

- Preston Dunton (Legacy High School, CO) Fall 2017
- Arnab Purkayastha (Fairview High School, CO) Spring 2014
- Andrew Mauboussin (Darien High School, CT) Summer 2009

TEACHING

University Courses (* indicates a new course)

- Biological Networks* (undergraduate) Fall 2019, Spring 2020 – 2022
Colorado, CSCI 3352
- Network Analysis and Modeling* (graduate) Fall 2013, 2014, 2016, 2017, 2021
Colorado, CSCI 5352
- Inference, Models and Simulation for Complex Systems* (graduate) Fall 2010, 2011
Colorado, CSCI 7000
- Algorithms (undergraduate) Spring 2014, 2017, 2018
Colorado, CSCI 3104
- History and Future of Computing* (undergraduate) Spring 2015, 2016
Colorado, CSCI 4380
- Design and Analysis of Algorithms (graduate) Spring 2011 – 2013
Colorado, CSCI 5454
- Topics in Interdisciplinary Research* (graduate, co-taught with D. Larremore) Fall 2019 – 2021

Colorado, CSCI 7000

Summer Schools

- Faculty, Philosophy & Political Economy Graduate Summer Workshop, Chapman U. 2021
- Faculty, Santa Fe Institute, Complexity Interactive 2021
- Faculty, Santa Fe Institute, Complex Systems Summer School (CSSS) 2007 – 2019
Santa Fe NM, 2007–2008, 2013–2014, 2016–2019; Beijing China, 2008–2009; Ajitgarh India 2015
- Faculty, Summer Institute in Computational Social Science (SICSS), Boulder CO 2018
- Faculty, Santa Fe Institute, Short Course on Exploring Complexity 2011 – 2016
Albuquerque NM, 2011; Washington DC, 2012; Stanford CA, 2012; Austin TX, 2013; Santa Fe NM, 2015; Santa Fe NM, 2016

REFEREE WORK

- **Applied Math and Statistics:** Annals of Applied Statistics, EPJ Data Science, SIAM ICDM Workshop on Analysis of Dynamic Networks (2009), Statistical Analysis and Data Mining
- **Biology:** Bioinformatics, BMC Bioinformatics, Evolutionary Biology, Global Ecology and Biogeography, IET Systems Biology, Journal of Animal Ecology, Journal of Theoretical Biology, Marine Ecology Progress Series, Methods in Ecology and Evolution, PLOS Biology, PLOS Computational Biology, Trends in Ecology & Evolution
- **Computer Science:** AAI (2014), Communications of the ACM (CACM), Computer Science Reviews (CSR), Foundations and Trends in Machine Learning, IEEE GLOBECOM (2010), Proceedings of the IEEE, IEEE International Conference on Robotics and Automation (2006), ICWSM (2014–2017), Journal of the ACM (JACM), ACM Journal of Experimental Algorithmics (JEA), SIAM Network Science (2017–2018, 2020), Journal of Statistical Analysis and Data Mining, Machine Learning, ACM Trans. on Knowledge Discovery from Data (TKDD), IEEE Trans. on Knowledge and Data Engineering (TKDE), MLG (2016–2018, 2020), IEEE Trans. on Network Science and Engineering (TNSE), ACM Trans. on the Web (TWEB), RANDOM (2007), SIMPLEX (2010), SODA (2006, 2007), SDM Workshop on Analysis of Dynamic Networks (2009), NIPS Workshop on Analyzing Graphs (2008), Workshop on Experimental Algorithms (2006), ACM SIGKDD Workshop on Social Network Mining and Analysis (2008, 2009), WSDM (2010), WWW (2010–2018)
- **General:** Nature, Nature Communications, Nature Methods, PLOS ONE, PNAS, Science, Science Advances
- **Physics:** European Physical Journal B, Europhysics Letters, Journal of Statistical Mechanics, New Journal of Physics, Physica A, Physical Review E, Physical Review Letters
- **Political Science:** American Journal of Political Science, American Political Science Review, British Journal of Political Science, Defense & Peace Economics, Journal of Conflict Resolution, Journal of Peace Research
- **Others:** Advances in Complex Systems, Computational Linguistics, Hydrology Earth System Sciences, Journal of Chemical Information and Modeling, Journal of Complex Networks, Journal of Quantitative Criminology, Networks and Spatial Economics, The Social Science Journal
- **Funding Agencies:** U.S. National Science Foundation (NSF), U.S. Department of Energy (DOE), U.S. Army Research Office (ARO), ETH Zürich Research Commission, European Research Council (ERC), Computing Research Association (CRA) Computing Innovation Fellows (CIFellows 2020, 2021)

PROFESSIONAL SERVICE

Workshops (Organizer or co-organizer)

- *A New Synthesis for the Science of Science*
Santa Fe Institute, Santa Fe NM (TBD) 2022
With D. B. Larremore (Colorado) and M. Galesic (Santa Fe)
- *Fairness in Networks*
Internat. Conf. on Knowledge Discovery and Data Mining (KDD) (14–18 September) 2021
With S. Friedler (Haverford), C. Scheidegger (Arizona), and S. Venkatasubramanian (Brown)
- *Statistical Inference for Network Models*

- NetSci 2020, Satellite Workshop, Rome Italy (20 September) 2020
 With D. B. Larremore (Colorado), B. Fosdick (Colo. State), T. Eliassi-Rad (Northeastern), and T. P. Peixoto (Cent. Eur. U.)
- *Statistical Inference for Network Models*
 NetSci 2019, Satellite Workshop, Burlington VT (27 May) 2019
 With D. B. Larremore (Colorado), B. Fosdick (Colo. State), and T. Eliassi-Rad (Northeastern)
 - *Statistical Inference for Network Models*
 NetSci 2018, Satellite Workshop, Paris France (11 June) 2018
 With D. B. Larremore (Colorado), B. Fosdick (Colo. State), and T. Eliassi-Rad (Northeastern)
 - *Statistical Inference for Network Models*
 NetSci 2017, Satellite Workshop, Indianapolis IN (19 June) 2017
 With D. B. Larremore (Santa Fe), B. Fosdick (Colo. State), and T. Broderick (MIT)
 - *Violent Radicalization in Western Democracies*
 Santa Fe Institute, Santa Fe NM (1–4 March) 2017
 With M. Galesic (Santa Fe), M. Dumas (Santa Fe), and D. Pines (UC Davis)
 - *Statistical Inference for Network Models*
 NetSci 2016, Satellite Workshop, Seoul Korea (30 May) 2016
 With D. B. Larremore (Santa Fe), B. Fosdick (Colo. State), and A. Z. Jacobs (Colorado)
 - *Inference on Networks: Algorithms, Phase Transitions, New Models and New Data*
 Santa Fe Institute, Santa Fe NM (14–18 December) 2015
 With C. Moore (SFI) and M.E.J. Newman (Michigan)
 - *Networks in the Social and Information Sciences*
 NIPS 2015, Montreal Canada (12 December) 2015
 With E. Airolidi (Harvard), D. Choi (CMU), J. Ugander (Microsoft), and P. Toulis (Harvard)
 - *Statistical Inference for Network Models*
 NetSci 2015, Satellite Workshop, Zaragoza Spain (1 June) 2015
 With D. B. Larremore (Harvard), L. Peel (Colorado), and A. Z. Jacobs (Colorado)
 - *Networks: From Graphs to Rich Data*
 NIPS 2014, Montreal Canada (13 December) 2014
 With E. Airolidi (Harvard), D. Choi (CMU), J. Ugander (Microsoft), and L. Peel (Colorado)
 - *Mathematics Research Community Workshop on Network Science*
 Snowbird UT (24–30 June) 2014
 With M. A. Porter (Oxford) and D. Kempe (Southern Cal.)
 - *Statistical Inference for Network Models*
 NetSci 2014, Satellite Workshop, Berkeley CA (2 June) 2014
 With D. B. Larremore (Harvard), L. Peel (Colorado), and A. Z. Jacobs (Colorado)
 - *Frontiers of Network Analysis: Methods, Models, and Applications*
 NIPS 2013, Lake Tahoe NV (9 December) 2013
 With E. Airolidi (Harvard), D. Choi (CMU), K. El-Arini (Facebook), and J. Leskovec (Stanford)
 - *Structure, Statistical Inference, and Dynamics in Networks: From Graphs to Rich Data*
 Santa Fe Institute, Santa Fe NM (6–9 May) 2013
 With C. Moore (SFI) and M.E.J. Newman (Michigan)
 - *The Mathematics of Terrorism*
 Santa Fe Institute, Santa Fe NM (31 Aug.–2 Sept) 2009
 With B. Tivnan (MITRE)
 - *Statistical Inference for Complex Networks*
 Santa Fe Institute, Santa Fe NM (3–5 December) 2008
 With C. Moore (New Mexico, SFI)
 - *Navigability and Complex Networks*
 Santa Fe Institute, Santa Fe NM (4–6 August) 2008
 With D. Krioukov (UCSD) and kc claffy (UCSD)
 - *Is There a Physics of Society?*
 Santa Fe Institute, Santa Fe NM (10–12 January) 2008
 With M. Girvan (Maryland)

Conferences (Organizer or co-organizer)

- 2nd *Computer Science at UNM Student Research Conference*, Conference Chair, Albuquerque NM, (3 March) 2006
- 1st *Computer Science at UNM Student Research Conference*, Conference Chair, Albuquerque NM, (4 March) 2005

Program Committees

- *International Conference on Computational Social Science (IC2S2)* 2016 – 2018
- *International Conference on Network Science (NetSci, main cycle)* 2015 – 2018, 2020
- *World Wide Web Conference (WWW)* 2010 – 2018
- *SIAM Workshop on Network Science* 2013, 2017 – 2018, 2020
- (PC co-chair) *International Conference on Computational Social Science (IC2S2)* 2017
- (Senior PC) *International Conference on Network Science (NetSci, main cycle)* 2017
- (Senior PC) *World Wide Web Conference (WWW)* 2017
- *International Conference on Network Science (NetSci-X)* 2015 – 2017
- *International Workshop on Mining and Learning With Graphs (MLG)* 2016 – 2017
- *International AAAI Conference on Web and Social Media (ICWSM)* 2014 – 2017
- (Senior PC) *International Conference on Computational Social Science (IC2S2)* 2016
- *AAAI Conference on Artificial Intelligence (AAAI)* 2014
- *International Conference on Complex Networks (CompleNet)* 2009 – 2010
- *Workshop on Simplifying Complex Networks for Practitioners (SIMPLEX)* 2010
- *ACM International Conference on Web Search and Data Mining (WSDM)* 2010
- *Workshop on Social Network Mining and Analysis (at ACM SIGKDD)* 2008 – 2009
- *Workshop on Analysis of Dynamic Networks (at SIAM ICDM)* 2009
- *Workshop on Analyzing Graphs: Theory and Applications (at NIPS)* 2008
- *International Workshop on Experimental Algorithms* 2006

Institutional Committees & Service

- Colorado, BioFrontiers Institute, Council 2010 – present
- Colorado, Computational Biology Minor, Director 2018 – present
- Colorado, Computer Science, Teaching Circles, Director 2019 – present
- Colorado, Computer Science, Executive Committee 2021 – present
- Colorado, BioFrontiers Institute, Computing Committee 2015 – present
- Colorado, Interdisciplinary Quant. Biology (IQBio) Curriculum Committee 2017 – present
- Colorado, Interdisciplinary Quant. Biology (IQBio) liaison with CS 2010 – present
- Colorado, Computer Science, CRA CERP point-of-contact 2016 – present
- Colorado, Provost's Faculty Achievement Award Committee 2020 – 2021
- Colorado, BioFrontiers Faculty Search Committee (co-chair) 2016 – 2017
- Colorado, Computer Science, Faculty Search Committee 2012 – 2016
- Colorado, BioFrontiers Faculty Search Committee (co-chair) 2014 – 2015
- Colorado, Computer Science, Executive Committee 2013 – 2015
- Colorado, Computer Science, Graduate Committee 2010 – 2012
- Colorado, Interdisciplinary Quant. Biology (IQBio) Mentoring Committee 2011 – 2012
- Santa Fe Institute, Colloquium Committee 2007 – 2009

Professional Society Leadership Positions

- Co-founder and Administrator, Zachary Karate Club CLUB Prize in Network Science
networkkarate.tumblr.com 2013 – present
- Erdős-Rényi Prize selection committee, Network Science Society 2020
- President, UNM Computer Science Grad. Student Assoc. (CSGSA) 2004 – 2005
- Vice President, UNM Computer Science Grad. Student Assoc. (CSGSA) 2003 – 2004

Professional Society Memberships (current)

- American Association for the Advancement of Science (AAAS)

- International Society for Scientometrics and Informetrics (ISSI)
- Complex Systems Society (CSS)
- Network Science Society
- Sigma Xi (Full Member)

SYNERGISTIC ACTIVITIES

- Founder and project lead for *Colorado Index of Complex Networks* (ICON) 2016 – present
 - icon.colorado.edu
 - public index of >5407 publicly accessible network science data sets
- Science blogger at *Structure+Strangeness* 2005 – present
 - aaronclauset.github.io 2017 – present
 - 4 entries
 - structureandstrangeness.com (defunct) 2005 – 2016
 - 366 entries and >500,000 page hits
- Science microblogger on Twitter @aaronclauset 2012 – present
 - 9601 followers (top 1% of all users)
 - 2485 tweets with mean 3.4 retweets per tweet (top 4% of all users)
 - proud to be blocked by Steven Pinker since at least 2021
- Popular science writing 2014 – 2017
 - *Pacific Standard*, *Slate*, *Christian Science Monitor*, and *Chronicle of Higher Education*
- Wikipedia contributor (various science and mathematics articles) 2006 – present
- Stackexchange contributor (various CS and mathematics questions) 2011 – present
- Public release of scientific data sets (open source; typically GPL or CC) 2007 – present
 - LinkPrediction network corpus (with A. Ghasemian, H. Hosseinmardi) 2019
 - Parental leave policies, U.S. & Canada (with A.C. Morgan, S.F. Way, D.B. Larremore) 2018
 - CommunityFitNet network corpus (with A. Ghasemian, H. Hosseinmardi) 2018
 - Degree sequences for 927 complex networks (with A.D. Broido) 2018
 - Faculty hiring networks for computer science, business, and history 2015
 - NFL 2009 network (with C. Aicher) 2014
 - Terrorist event sizes worldwide 2013
 - Body masses of all extant whale species 2013
 - Various binned quantities with heavy-tailed distributions (with Y. Virkar) 2012
 - 9/11 hijackers association network 2008
 - Various quantities with heavy-tailed distributions (with M.E.J. Newman) 2007
- Public release of working algorithms (open source; typically GPL or CC) 2004 – present
 - Stacked topological model for link prediction in networks (Python; with A. Ghasemian) 2019
 - Scale-free network toolkit (Python; with A.D. Broido) 2018
 - neoSBM for metadata community detection (Python; with L. Peel) 2017
 - Block entropy statistical test (BESTest) for networks (Matlab; with D.B. Larremore) 2017
 - Minimum violation ranking sampling code (Matlab) 2015
 - Bipartite stochastic block model package (Matlab; with D.B. Larremore) 2014
 - Network change-point detection package (C++ and Python; with L. Peel) 2014
 - Weighted stochastic block model package (Matlab; with C. Aicher) 2014
 - Power-law distributions with bins toolkit (Matlab; with Y. Virkar) 2012
 - Rare event forecasting tool kit (Matlab) 2012
 - Terrorist organization simulation code (Matlab) 2011
 - Modularity landscape mapping software package (Python; with B.H. Good) 2010
 - Hierarchical random graph and missing-link prediction software package (C++) 2008
 - Species mass macroevolution simulation code (Matlab) 2008
 - Power-law distributions tool kit (Matlab and R; with C.R. Shalizi) 2007
 - Local-modularity network clustering algorithm (C++) 2005
 - Fast-modularity network clustering algorithm (C++) 2004