# **Aaron Clauset**

CONTACT INFORMATION	Department of Computer Science University of Colorado at Boulder 430 UCB Boulder CO, 80309-0430 USA	voice: fax: email: web:	303-492-6643 303-492-2844 aaron.clauset@colora aaronclauset.github	
RESEARCH INTERESTS	Network science — methods, data, theories, application Epistemology — data science, statistical inference, Science of science — social and epistemic inequality. Computational biology — oncology, genomics, networks	machines, pres	tige economy, faculty	ems
EDUCATION	Ph.D. Computer Science, University of New Mexico B.S. Physics, Haverford College (with honors and of			2002 – 2006 ce) 1997 – 2001
Academic Positions	Professor, Computer Science Dept., University of Core Faculty, BioFrontiers Institute, University of External Faculty, Santa Fe Institute			2022 – present 2010 – present 2012 – present
	Affiliated Faculty, Ecology & Evo. Biology Dept., & Affiliated Faculty, Applied Mathematics Dept., Un Affiliated Faculty, Information Dept., University of	iversity	of Colorado, Boulder	2011 – present 2012 – present 2015 – present
	Associate Professor, Computer Science Dept., Univ. Assistant Professor, Computer Science Dept., Univ. Omidyar Fellow, Santa Fe Institute		•	2018 - 2022 $2010 - 2018$ $2006 - 2010$
EDITORIAL POSITIONS	Deputy Editor, Science Advances, AAAS Associate Editor, Science Advances, AAAS Associate Editor, Journal of Complex Networks, Ox	xford U	niversity Press	$\begin{array}{c} 2017 - present \\ 2014 - 2017 \\ 2012 - 2017 \end{array}$
Honors & Awards (Selected)	Provost Faculty Achievement Award, U. Colorado, Top 20 Teachers, College of Engineering, U. Colora Erdős-Rényi Prize in Network Science NSF CAREER Award Kavli Fellow Santa Fe Institute Public Lecturer (http://bit.lg. Graduation Speaker, U. New Mexico School of Engoutstanding Graduate Student Award, U. New Mexico School of Engoutstanding Gradua	do, Bou 7/I6t9g ineering	alder  f) g Convocation	2019 2016 2016 2015 2014 2010 2006 2006
GOOGLE SCHOLAR	scholar.google.com/citations?user=e7VI_HcAA			

 $<sup>^*</sup>$  indicates an undergraduate coauthor;  $^\circ$  indicates equal contribution

Manuscripts Under Review K. Spoon, N. Laberge, K. H. Wapman, S. Zhang, A. C. Morgan, M. Galesic, D. B. Larremore, and A. Clauset, "Gender and retention patterns among U.S. faculty." Submitted (2022).

- I. V. Buskirk, A. Clauset, and D. B. Larremore, "An open-source cultural consensus approach to name-based gender classification." Submitted (2022). (Preprint at arxiv:2208.01714)
- U. Dutta, B. K. Fosdick, and A. Clauset, "Sampling random graphs with specified degree sequences." Submitted (2022). (Preprint at arxiv:2105.12120)
- D. Van Egdom, C. Spitzmueller, P. Lindner,  $\bf A.$  Clauset, "Supporting working parents: The effects of work-family policies on research productivity trends." Submitted (2022).

Publications (Refereed)

- N. LaBerge, K. H. Wapman, A. C. Morgan, S. Zhang, D. B. Larremore, and **A. Clauset**, "Subfield prestige and gender inequality in computer science." To appear, *Communications of the ACM* (2022). (Preprint at arxiv:2201.00254)
- S. Zhang, K. H. Wapman, D. B. Larremore, and **A. Clauset**, "Labor advantages drive the greater productivity of faculty at elite universities." *Science Advances* **8**(46), eabq7056 (2022). (Preprint at arxiv:2204.05989)
- K. H. Wapman, S. Zhang, **A. Clauset**, and D. B. Larremore, "Quantifying hierarchy and dynamics in US faculty hiring and retention." *Nature* **610**, 120–127 (2022). [Chosen for an invited News & Views editorial]
- A. C. Morgan, N. LaBerge, D. B. Larremore, M. Galesic, J. E. Brand, and A. Clauset, "Socioe-conomic roots of academic faculty." *Nature Human Behavior* (2022). https://doi.org/10.1038/s41562-022-01425-4 (Preprint at osf.io/preprints/socarxiv/6wjxc)
- W. Li, S. Zhang, Z. Zheng, S. J. Cranmer, and **A. Clauset**, "Untangling the network effects of productivity and prominence among scientists." *Nature Communications* **13**, 4907 (2022).
- E. Lee, **A. Clauset**°, and D. B. Larremore°, "The dynamics of faculty hiring networks." *EPJ Data Science* **10**, 48 (2021). (Preprint at arxiv:2105.02949)
- H. Hosseinmardi, A. Ghasemian, **A. Clauset**, M. Mobiush, 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)
- A. J. Kavran and A. Clauset, "Denoising large scale molecular profiling data using network filters." *BMC Bioinformatics* **22**, article 157 (2021). (Preprint at doi.org/10.1101/2020.03.12.989244)
- A. C. Morgan, S. F. Way, M. J. D. Hoefer, D. B. Larremore, M. Galesic, and **A. Clauset**, "The unequal impact of parenthood in academia." *Science Advances* **7**(9), eabd1996 (2021). [Paper of the Year Award, 2021, International Society for Scientometrics and Informetrics (ISSI)]
- 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. Airoldi, 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) [Chosen for an invited Commentary editorial]
- S. F. Way, A. C. Morgan, D. B. Larremore, A. Clauset, "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)
- 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)

- A. D. Broido and **A. Clauset**, "Scale-free networks are rare." *Nature Communications* **10**, 1017 (2019). (Preprint at arxiv:1801.03400) [19th most-read article in Physics in *Nat. Comms.* in 2019] [Chosen for a special Comment editorial]
- A. C. Morgan, D. J. Economou, S. F. Way and **A. Clauset**, "Prestige drives epistemic inequality in the diffusion of scientific ideas." *EPJ Data Science* **7**, 40 (2018). (Preprint at arxiv:1805.09966)
- A. C. Morgan, S. F. Way and **A. Clauset**, "Automatically assembling a full census of an academic field." *PLOS ONE* **13**(8), e0202223 (2018). (Preprint at arxiv:1804.02760)
- **A. Clauset**, "Trends and fluctuations in the severity of interstate wars." *Science Advances* **4**(2), eaao3580 (2018).
- L. R. Thompson, J. G. Sanders, [et al. including **A. Clauset**], "A communal catalogue reveals Earth's multiscale microbial diversity." *Nature* **551**, 457–463 (2017).
- S. F. Way, A. C. Morgan, **A. Clauset**°, and D. B. Larremore°, "The misleading narrative of the canonical faculty productivity trajectory." *Proc. Natl. Acad. Sci. USA* **114**(44), E9216–E9223 (2017). (Preprint at arxiv:1612.08228) [Also accepted at *ICWSM* 2017, social science track (non-archival)]
- N. Connor, A. Barbaran and A. Clauset, "Using null models to infer microbial co-occurrence networks." *PLOS ONE* **12**(5), e0176751 (2017). (Preprint at doi:10.1101/070789)
- 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)
- D. Taylor, S. A. Myers, **A. Clauset**, M. A. Porter, P. J. Mucha, "Eigenvector-based centrality measures for temporal networks." *Multiscale Modeling and Simulation* **15**(1), 537–574 (2017). (Preprint at arxiv:1507.01266)
- A. Ghasemian, P. Zhang, A. Clauset, C. Moore, and L. Peel, "Detectability thresholds and optimal algorithms for community structure in dynamic networks." *Physical Review X* **6**, 031005 (2016). (Preprint at arxiv:1506.06179)
- M. E. J. Newman and **A. Clauset**, "Structure and inference in annotated networks." *Nature Communications* **7**, 11863 (2016). (Preprint at arxiv:1507.04001) [Included by *Nat. Comms*. in a special collection of papers on "Network structure and dynamics"]
- S. F. Way, D. B. Larremore, and **A. Clauset**, "Gender, productivity, and prestige in computer science faculty hiring networks." *Proc. 25th International Conference on World Wide Web* (WWW), 1169–1179 (2016). (Preprint at arxiv:1602.00795)
- L. Peel and **A. Clauset**, "Predicting sports scoring dynamics with restoration and anti-persistence." *Proc. 2015 IEEE International Conference on Data Mining* (ICDM), 339–348 (2015). (Preprint at arxiv:1504.05872)
- D. B. Larremore, S. A. Sundararaman, W. Liu, W. R. Proto, A. Clauset, D. E. Loy, S. Speede, P. M. Sharp, B. H. Hahn, J. C. Rayner, and C. O. Buckee, "Ape origins of human malaria virulence genes." *Nature Communications* 6, 8368 (2015).
- A. Z. Jacobs, S. F. Way, J. Ugander and A. Clauset, "Assembling thefacebook: Using heterogeneity to understand online social network assembly." *Proc. ACM Web Science Conference* (WebSci 2015),

- **A.** Clauset, M. Kogan and S. Redner, "Safe leads and lead changes in competitive team sports." *Physical Review E* **91**, 062815 (2015). (Preprint at arxiv:1503.03509) [Chosen as an "Editors' Suggestion"]
- **A.** Clauset, S. Arbesman and D. B. Larremore, "Systematic inequality and hierarchy in faculty hiring networks." *Science Advances* 1(1), e1400005 (2015). [One of "Top Ten" *Science Advances* articles of 2015.] [One of the top 100 articles of 2015, by almetrics.com.]
- L. Peel and **A. Clauset**, "Detecting change points in the large-scale structure of evolving networks." *Proc. 29th Conference on Artificial Intelligence* (AAAI), 2914–2920 (2015). (Preprint at arxiv:1403.0989)
- C. Aicher\*, A. Z. Jacobs and A. Clauset, "Learning latent block structure in weighted networks." Journal of Complex Networks 3(2), 221–248 (2015). (Preprint at arxiv:1404.0431)
- A. Scharpf, G. Schneider, A. Nöh and A. Clauset, "Forecasting of the risk of extreme massacres in Syria." European Review of International Studies 1(2), 50–68 (2014).
- D. B. Larremore, **A. Clauset** and A. Z. Jacobs, "Efficiently inferring community structure in bipartite networks." *Physical Review E* **90**, 012805 (2014). (Preprint at arxiv:1403.2933) [Best Poster award at NetSci 2014]
- P. Sah, L.O. Singh, **A. Clauset** and S. Bansal, "Exploring community structure in biological networks with random graphs." *BMC Bioinformatics* **14**, 220 (2014). (Preprint at biorxiv.org/content/early/2013/12/22/001545) [Highly accessed paper]
- S. Merritt and **A. Clauset**, "Scoring dynamics across professional team sports: tempo, balance and predictability." *EPJ Data Science* **3**, 4 (2014). (Preprint at arxiv:1310.4461) [Highly accessed paper]
- Y. Virkar and A. Clauset, "Power-law distributions in binned empirical data." Annals of Applied Statistics 8(1), 89–119 (2014). (Preprint at arxiv:1208.3524)
- L. Shoemaker and **A. Clauset**, "Body mass evolution and diversification within horses (family Equidae)." *Ecology Letters* **17**(2), 211–220 (2014).
- **A. Clauset** and R. Woodard, "Estimating the historical and future probabilities of large terrorist events." *Annals of Applied Statistics* **7**(4), 1838–1865 (2013). (Preprint at arxiv:1209.0089) [Subject of a special session at ASA Joint Statistical Meetings, Montreal Canada, 5 August 2013]
- D. B. Larremore, **A. Clauset**, and C. O. Buckee, "A network approach to analyzing highly recombinant malaria parasite genes." *PLoS Computational Biology* **9**(10), e1003268 (2013). (Preprint at arxiv:1308.5254)
- S. Merritt and A. Clauset, "Environmental structure and competitive scoring advantages in team competitions." *Scientific Reports* 3, 3067 (2013). (Preprint at arxiv:1304.1039)
- A. Scharpf, G. Schneider, A. Nöh and **A. Clauset**, "The blood trail of the veto: A forecast of the risk of extreme massacres in Syria." Zeitschrift für Friedens und Konfliktforschung **2**(1), 6–31 (2013). [In German]
- S. Merrit, A. Z. Jacobs, W. Mason and A. Clauset, "Detecting friendship within dynamic online

- interaction networks." *Proc. 7th International AAAI Conference on Weblogs and Social Media* (ICWSM), 380–389 (2013). (Preprint at arxiv:1303.6372)
- B. J. Mills, J. J. Clark, M. Peeples, W. R. Haas Jr., J. M. Roberts Jr., B. Hill, D. L. Huntley, L. Borck, R. L. Breiger, **A. Clauset**, and M. S. Shackley, "Transformation of social networks in the late Prehispanic U.S. Southwest." *Proc. Natl. Acad. Sci. USA* **110**(15): 5785–5790 (2013).
- A. Clauset, "How large should whales be?" PLOS ONE 8(1), e53967 (2013). (Preprint at arxiv:1207.1478)
- W. Mason and **A. Clauset**, "Friends FTW! Friendship, collaboration and competition in *Halo: Reach.*" *Proc. 2013 Conference on Computer Supported Cooperative Work* (CSCW), 375–386 (2013). (Preprint at arxiv:1203.2268)
- **A. Clauset** and K. S. Gleditsch, "The developmental dynamics of terrorist organizations." *PLOS ONE* **7**(11), e48633 (2012). (Preprint at arxiv:0906.3287)
- B. H. Good\*, Y.-A. de Montjoye and **A. Clauset**, "The performance of modularity maximization in practical contexts." *Physical Review E* **81**, 046106 (2010). (Preprint at arxiv:0910.0165) [Chosen as an "Editors' Suggestion"]
- **A.** Clauset, L. Heger, M. Young and K. S. Gleditsch, "The strategic calculus of terrorism: Substitution and competition in the Israel-Palestine conflict." *Cooperation & Conflict* **46**(1), 6–33 (2010).
- A. Clauset and F. W. Wiegel, "A generalized aggregation-disintegration model for the frequency of severe terrorist attacks." *Journal of Conflict Resolution* **54**(1), 179–197 (2010). (Preprint at arxiv:0902.0724)
- **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)
- **A. Clauset**, D. J. Schwab and S. Redner, "How many species have mass M?" American Naturalist 173, 256–263 (2009). (Preprint at arxiv:0808.3433)
- **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).
- A. Clauset and D. H. Erwin, "The evolution and distribution of species body size." Science 321, 399–401 (2008). (Preprint at arxiv:0901.0251)
- **A. Clauset**, C. Moore and M. E. J. Newman, "Hierarchical structure and the prediction of missing links in networks." *Nature* **453**, 98–101 (2008). (Preprint at arxiv:0811.0484) [Chosen for an invited News & Views editorial]

- **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).
- **A. Clauset**, "Finding local community structure in networks." *Physical Review E* **72**, 026132 (2005). (Preprint at arxiv:physics/0503036)
- D. Achlioptas, **A. Clauset**, D. Kempe and C. Moore, "On the bias of traceroute sampling (or: Why almost every network looks like it has a power law)." ACM *Proc. 37th Symp. on Theory of Computing* (STOC 2005), 694–703.
- A. Clauset and C. Moore, "Accuracy and scaling phenomena in Internet mapping." *Physical Review Letters* **94**, 018701 (2005). (Preprint at arxiv:cond-mat/0410059)
- A. Clauset, M. E. J. Newman and C. Moore, "Finding community structure in very large networks." *Physical Review E* 70, 066111 (2004). (Preprint at arxiv:cond-mat/0408187)
- E. Bayram, P. Santago II, R. Harris, Y. D. Xiao, A. Clauset and J. D. Schmitt, "Genetic algorithms and self-organizing maps: A powerful combination for modeling complex QSAR and QSPR problems." *Journal of Computer-Aided Molecular Design* 18 (7-9), 483–493 (2004).

## Workshop Papers

- A. Glassemian, A. Galstyan, and **A. Clauset**, "Highly Accurate Link Prediction in Networks Using Stacked Generalization." *WSDM* International Workshop on Heterogeneous Networks Analysis and Mining (HeteroNAM 2018).
- A. Z. Jacobs and **A. Clauset**, "A unified view of generative models for networks: models, methods, opportunities, and challenges." *NIPS* Workshop on Networks: From Graphs to Rich Data (2014). (Preprint at arxiv:1411.4070)
- L. Peel and A. Clauset, "Change-point detection in temporal networks using hierarchical random graphs." *KDD* Workshop on Outlier Detection & Description under Data Diversity (2014).
- 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)
- C. Aicher\*, A. Z. Jacobs and A. Clauset, "Adapting the stochastic block model to edge-weighted networks." *ICML* Workshop on Structured Learning (2013). (Preprint at arxiv:1305.5782)
- N. Eagle, A. Clauset and J. Quinn, "Location segmentation, inference and prediction for anticipatory computing." *Proc. AAAI Spring Symposium*, 20–25 (2009).
- A. Clauset and N. Eagle. "Persistence and periodicity in a dynamic proximity network."

DIMACS Workshop on Computational Methods for Dynamic Interaction Networks (Piscataway), 2007. (Preprint at arxiv:1211.7343).

A. Clauset, C. Moore and M. E. J. Newman, "Structural inference of hierarchies in networks." Proc. Workshop on Statistical Network Analysis, 23rd International Conference on Machine Learning (ICML '06). E. M. Airoldi et al., Eds., Lecture Notes in Computer Science 4503, 1–13 (2007). (Preprint at arxiv:physics/0610051)

#### BOOK CHAPTERS

- A. Clauset, "On the frequency and severity of interstate wars." In Nils Petter Gleditsch (Ed.), Lewis F. Richardson His Intellectual Legacy and Influence in the Social Sciences, Springer Pioneer Series (2020). (Preprint at arxiv:1901.05086)
- K. S. Gleditsch and A. Clauset, "Trends in Conflict." In A. Gheciu and W. C. Wohlforth (Eds.), *The Oxford Handbook of International Security* (pp 227–244) Oxford University Press (2018).

# ESSAYS AND PERSPECTIVES

- K. Hodges, M. McNutt, **A. Clauset**, J. Jackson, G. Machlis, and S. Naeem, "The Fine Art of Scientific Advocacy: A Tribute to Tom Lovejoy." *Science Advances* **8**(2), abn9704 (2022).
- **A. Clauset**, K. Behbakht, B. G. Bitler, "Decoding the dynamic tumor microenvironment." *Science Advances* **7**(23), eabi5904 (2021).
- **A.** Clauset, D. B. Larremore and R. Sinatra, "Data-driven predictions in the science of science." *Science* **355**, 477–480 (2017). [Invited]
- R. T. Gill, A. L. Halweg-Edwards, S. F. Way and **A. Clauset**, "Synthesis aided design: The biological design-build-test engineering paradigm?" *Biotechnology and Bioengineering* **113**(1), 7–10 (2016).

# PREPRINTS AND OTHER PUBLICATIONS

- A.C. Morgan and **A. Clauset**, "Nearly a quarter of tenure-track faculty have a parent with a PhD." *Nature Human Behavior* (2022). https://doi.org/10.1038/s41562-022-01426-3
- 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." Preprint, biorxiv.org/content/10.1101/2021.08.12.455589 (2021).
- N. Connor and **A. Clauset**, "Predicting the outcomes of policy diffusion from U.S. states to federal law." Preprint, arxiv:1810.08988 (2018).
- J. I. Perotti, C. J. Tessone, A. Clauset and G. Caldarelli, "Thermodynamics of the minimum description length on community detection." Preprint, arxiv:1806.07005 (2018).
- K. Ikehara and A. Clauset, "Characterizing the structural diversity of complex networks across domains." Preprint, arxiv:1710.11304 (2017).
- R. C. Tillquist, L. Shoemaker, K. B. Knight, and **A. Clauset**, "The evolution of primate body size: Left-skewness, maximum size, and Copes rule." Preprint, doi:10.1101/092866 (2016).
- L. Fortunato and A. Clauset, "Revisiting the effect of red on competition in humans." Preprint, doi:10.1101/086710 (2016).
- A. Z. Jacobs, J. A. Dunne, C. Moore, and A. Clauset, "Untangling the roles of parasites in food webs with generative network models." Preprint, arxiv:1505.04741 (2015).

- C. R. Shalizi, A. Z. Jacobs\*, K. L. Klinkner and A. Clauset, "Adapting to non-stationarity with growing expert ensembles." Preprint, arxiv:1103.0949 (2011).
- **A.** Clauset, M. Young and K. S. Gleditsch, "A novel explanation of the power-law form of the frequency of severe terrorist events: Reply to Saperstein." *Peace Economics, Peace Science and Public Policy* **16**(1), Article 12 (2010).
- A. Clauset, "Story-telling, statistics, and other grave scientific insults." *Nature* Soapbox Science Blog (posted 27 October 2010). go.nature.com/3mYkXfq
- A. Clauset, "A theoretician ponders what physics has to offer ecology." Nature 465, 139 (2010).
- N. Eagle, A. Clauset, A. Pentland and D. Lazer, "Multi-dimensional edge inference: Response to comment by Dr. Adams." *Proc. Natl. Acad. Sci. USA* **107**(9), E31 (2010).
- **A. Clauset** and C. Moore, "How do networks become navigable?" Preprint, arxiv:cond-mat/0309415 (2003).

#### Popular Press

- D. B. Larremore, A. C. Morgan and **A. Clauset**, "More inclusive scholarship begins with active experimentation." *The Chronicle of Higher Education*, published online 1 November, bit.ly/21FB1Go (2017).
- D. B. Larremore and A. Clauset, "Why predicting the future is more than just horseplay." The Christian Science Monitor, published online 24 April, bit.ly/2omFZbX (2017).
- J. Warner and A. Clauset, "The Academy's dirty secret." *Slate*, published online 23 February, bit.ly/3FRm4Gd (2015).
- J. Warner and A. Clauset, "What same-sex marriage means for the future of recreational weed." *Pacific Standard*, published online 24 October, bit.ly/1tdlut1 (2014).

## BOOK Endorsements

B. F. Braumoeller, Only the Dead: The Persistence of War in the Modern Age. Oxford University Press (2019).  $\rightarrow$  "Only the Dead demolishes the myth that war is in decline, and constructs a compelling explanation for the true drivers of war in the past, and likely in the future."

# 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, Respond Software Inc., Mountain View CA	2017
Scientific & Technical Consultant, FullContact Inc., Denver CO	2015 - 2017
Scientific & Technical Consultant, Institute for Defense Analysis, Alexandria VA	2010 - 2014
Corporate Advisory Board, 33across LLC, New York NY	2008 - 2012
Scientific & Technical Consultant, 33across LLC, New York NY	2007 - 2012
Strategy & Management Consultant, Fischer Jordan LLC, New York NY	2005

# GRANTS (PI OR CO-PI)

"Mining thousands of genomes to classify somatic and pathogenic structural variants."

co-I, with Ryan Layer (PI) and Fritz Sedlazeck (co-I; Baylor)

NIH R01, \$3,176,940

2022 – 2027

"A machine learning approach to chemotherapy-induced remodeling of the tumor microenvironment."

**co-PI**, with Benjamin Bitler (PI; Anschutz) Ovarian Cancer Research Alliance (OCRA), \$895,275

2022 - 2024

"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

2020 - 2025

"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

2020 - 2023

"A New Synthesis for the Science of Science."

 $\mathbf{PI}$ 

NSF SBE SMA Conference, \$40,418

2020 - 2022

"Ovarian cancer ascites: A glimpse of therapeutic response and recurrence."

**co-PI**, with Benjamin Bitler (PI; Anschutz), Kian Behbakht (co-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 2020

"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

2019 - 2023

"Leveraging machine learning to improve biological protocol accuracy."

PI, with Sara Sawyer (co-PI; Colorado)

University of Colorado, Research & Innovation Seed Grant, \$50,000

2018 - 2020

"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

2016 - 2020

"CAREER: Hierarchical probabilistic models for networks with rich data in scientific domains."

 $\mathbf{PI}$ 

NSF CISE, \$550,000

2015 - 2020

"Extracting diagnostic signals from human microbiome data."

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." <b>co-PI</b> , with Hyejin Youn (PI; Santa Fe Institute) NSF SBE, \$152,500	2013 - 2017
"Statistical inference for detecting structures and anomalies in networks." <b>PI</b> , 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." <b>co-PI</b> , with Cris Moore (PI; Santa Fe Institute) and Mark Newman (PI; Michigan McDonnell Foundation, \$417,576	n) 2008 – 2012
Facebook Inc. Microsoft Inc.	2015 2014
<ul> <li>Colloquium, Data Science Research Center for Social Policies and Service, Car Higher Education, Hong Kong, 9 December 2022</li> <li>Colloquium, Interdisciplinary Center for Science and Technology Studies (IZW Wuppertal, Germany, 2 November 2022</li> <li>Keynote, "Communities in Networks," NetSci Satellite Workshop, China, Shang</li> <li>Keynote, "Advances in Network Analysis and its Applications" symposium, Statistics Symposium, University of Connecticut, Storrs, CT, 24 May 2022</li> <li>Seminar, Peace &amp; Stability Workshop, Peace Research Institute of Oslo, Oslo 2022</li> <li>A New Synthesis for the Science of Science Workshop, Santa Fe Institute, San 2022</li> <li>Colloquium, Lucy Family Institute, University of Notre Dame, Notre Dame IN Seminar, Division of Reproductive Sciences, University of Colorado, Anschutz 2022</li> <li>145 other invited talks, since 2004</li> <li>Postdoctoral Fellows</li> <li>Dr. Katherine Wootton</li> <li>Dr. Eun Lee</li> <li>Dr. Samuel F. Way</li> <li>Dr. Andrea Berardi</li> <li>Dr. Daniel B. Larremore</li> <li>Dr. Leto Peel</li> </ul>	TT), University of ghai, 12 July 2022 5th New England Norway, 11 May ta Fe NM, 6 May I, 2 March 2022
<ul> <li>Doctoral Students (all at Colorado)</li> <li>Nicholas LaBerge Computer Science; co-advised with D. B. Larremore</li> <li>Katherine Spoon Computer Science; NSF GRF; co-advised with D. B. Larremore</li> <li>Ian Van Buskirk Computer Science; co-advised with D. B. Larremore</li> <li>Lucy Van Kleunen Computer Science; co-advised with L. Dee</li> </ul>	2019 – present 2020 – present 2019 – present 2020 – present

GIFTS

(UNRESTRICTED)

INVITED TALKS (RECENT)

Advising

• Caroline Wendt	2021 – present
Computer Science  • Shimian (Sam) Zhang Applied Mathematics; NSF GRF	2019 – present
<ul> <li>Andrew J. Kavran (PhD Biochemistry, and IQ Biology, co-advised with N. Dissertation: Intermittent drug treatment of BRAF<sup>V600E</sup> melanoma cells adaptive resensitization to drug rechallenge</li> </ul>	
<ul> <li>Allison C. Morgan (PhD Computer Science)</li> <li>Dissertation: Quantifying structural inequalities in the academic workforce</li> </ul>	2021
<ul> <li>Anna Broido (PhD Applied Mathematics, and IQ Biology)</li> <li>Dissertation: Characterizing the tails of degree distributions in real-world n</li> </ul>	2019
<ul> <li>Amir Ghasemian (PhD Computer Science)</li> <li>Dissertation: Limits of model selection, link prediction, and community det</li> </ul>	2018
<ul> <li>Nora Connor (PhD Computer Science, and IQ Biology)</li> <li>Dissertation: Using data science to find interpretable answers for problems in science</li> </ul>	2018
<ul> <li>Abigail Z. Jacobs (PhD Computer Science)</li> <li>Dissertation: Comparative, population-level analysis of social networks in o</li> </ul>	2017
<ul> <li>Samuel F. Way (PhD Computer Science, and IQ Biology)</li> <li>Dissertation: Systematic inequalities in the composition and productivity of</li> </ul>	2017
<ul> <li>faculty</li> <li>Lauren G. Shoemaker (PhD Ecology &amp; Evolutionary Biology, and IQ Biolo co-advised with B. Melbourne)</li> <li>Dissertation: Stabilizing and equalizing mechanisms alter community coexis</li> </ul>	2017
<ul> <li>lutionary diversity patterns</li> <li>Sears Merritt (PhD Computer Science)</li> <li>Dissertation: Dynamics and structure in competitive social systems</li> </ul>	2013
Masters Students (all at Colorado)	
• Upasana Dutta (MS Computer Science) Thesis: Sampling random graphs with specified degree sequences	2022
• Trevor DiMartino (MS Computer Science) Thesis: Ratchet mechanisms in macroevolutionary processes	2017
Kansuke Ikehara (MS Computer Science)  Thesis: Structure of complex networks across domains	2017
<ul> <li>Christopher Aicher (BS/MS Applied Mathematics)</li> <li>Thesis: The weighted stochastic block model</li> </ul>	2014
• Pooneh Mortazavi (MS, Computer Science) Thesis: Genome optimization and evolution modeling using genetic algorith	
• Yogesh Virkar (MS, Computer Science) Thesis: Power-law distributions and binned empirical data	2012
Undergraduate Students  • Behzod Mirpochoev (BS Computer Science, Colorado)	2022 – present
• Skylar Martin (BS Computer Science, Colorado) Thesis: PhageOne: Inferring the grammar of bacteriophage genomes	2020 - 2021
<ul><li>Nicholas Cordaro (BS Biochemistry, Colorado)</li><li>Christoph Uhl (BS Computer Science, Colorado)</li></ul>	$2019 - 2020 \ 2018 - 2020$
• Alexander Ray (BS Computer Science, Colorado) Thesis: Scaling laws in empirical networks	2017 - 2019
McKenzie Weller (BS Computer Science, Colorado)     Totsumishi Umada (BS Computer Science, Colorado)	2016 - 2019
<ul> <li>Tetsumichi Umada (BS Computer Science, Colorado)</li> <li>Ellen Tucker (BS Mathematics, Colorado)</li> </ul>	$2016 - 2018 \\ 2015 - 2016$
• Matthias Sainz (BS Computer Science, Colorado)	2014 - 2016

• Christopher Aicher (BS/MS Applied Mathematics, Colorado)	2011 - 2014
• Kenneth Sheedlo (BS Comp. Sci., Colorado; Discovery Learni	
• Andrew Zizzi (BS Aerospace, Colorado; Discovery Learning A	· /
• Kristen Hargett (BS Applied Math., Colorado)	2011
• Zachary Newman (BS Math., Colorado; McNair Scholar & Ul	ROP) 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
University Courses (* indicates a new course)	
• Biological Networks* (undergraduate)	Fall 2019, Spring 2020 – 2023
Colorado, CSCI 3352	1 an 2015, Spring 2020 2020
	013, 2014, 2016, 2017, 2021 – 2022
Colorado, CSCI 5352	719, 2014, 2010, 2011, 2021 2022
• Algorithms (undergraduate)	Spring 2014, 2017, 2018
Colorado, CSCI 3104	Spins 2011, 2011, 2010
• History and Future of Computing* (undergraduate)	Spring 2015, 2016
Colorado, CSCI 4380	- F - G
• Design and Analysis of Algorithms (graduate)	Spring $2011 - 2013$
Colorado, CSCI 5454	1
• Inference, Models and Simulation for Complex Systems* (grade Colorado, CSCI 7000	fuluate) Fall 2010, 2011
	ll 2019 – 2022, Spring 2022 – 2023
Colorado, CSCI 7000 (co-taught with D. Larremore)	2020, Sp.m. 2022
Summer School Courses	
• Santa Fe Institute, Complex Systems Summer School (CSSS)	2007-2022
Santa Fe NM, 2007, 2008, 2013, 2014, 2016 – 2019, 2022;	
Beijing China, 2008, 2009; Ajitgarh India 2015	
• Science of Science Summer School (S4), Syracuse U.	2022
• Philosophy & Political Economy Graduate Summer Workshop	o, Chapman U. 2021
• Santa Fe Institute, Complexity Interactive	2021
• Summer Institute in Computational Social Science (SICSS), I	
• Santa Fe Institute, Short Course on Exploring Complexity	2011 - 2016
Albuquerque NM, 2011; Washington DC, 2012; Stanford CA, NM, 2015; Santa Fe NM, 2016	2012; Austin TX, 2013; Santa Fe

2014 - 2015

• Dominic Tonozzi (BS Computer Sciene, Colorado)

## Referee Work

Teaching

- Applied Math and Statistics: Annals of Applied Statistics, EPJ Data Science, SIAM ICDM Workshop on Analysis of Dynamic Networks (2009), SIAM Workshop on Network Science (2013, 2017, 2018, 2020, 2022), Statistical Analysis and Data Mining
- Biology: Bioinformatics, BMC Bioinformatics, eLife, 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: AAAI (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), 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, PNAS Nexus, 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, American Sociological Review, 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 (5–6 May) With D. B. Larremore (Colorado) and M. Galesic (Santa Fe)

2022

• 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. K. 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. K. 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. K. 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. K. 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)

With C. Moore (SFI) and M.E.J. Newman (Michigan)
• Networks in the Social and Information Sciences

2015

NIPS 2015, Montreal Canada (12 December) With E. Airoldi (Harvard), D. Choi (CMU), J. Ugander (Microsoft), and P. To	2015 pulis (Harvard)
• Statistical Inference for Network Models  NetSci 2015, Satellite Workshop, Zaragoza Spain (1 June)  With D. B. Larremore (Harvard), L. Peel (Colorado), and A. Z. Jacobs (Colora	2015 ado)
<ul> <li>Networks: From Graphs to Rich Data</li> <li>NIPS 2014, Montreal Canada (13 December)</li> <li>With E. Airoldi (Harvard), D. Choi (CMU), J. Ugander (Microsoft), and L. Pe</li> </ul>	2014
• Mathematics Research Community Workshop on Network Science	er (Colorado)
Snowbird UT (24–30 June) With M. A. Porter (Oxford) and D. Kempe (Southern Cal.)  • Statistical Inference for Network Models	2014
NetSci 2014, Satellite Workshop, Berkeley CA (2 June) With D. B. Larremore (Harvard), L. Peel (Colorado), and A. Z. Jacobs (Colora	2014 ado)
• Frontiers of Network Analysis: Methods, Models, and Applications NIPS 2013, Lake Tahoe NV (9 December)	2013
With E. Airoldi (Harvard), D. Choi (CMU), K. El-Arini (Facebook), and J. Les • Structure, Statistical Inference, and Dynamics in Networks: From Graphs to Reference	
Santa Fe Institute, Santa Fe NM (6–9 May) With C. Moore (SFI) and M.E.J. Newman (Michigan)  • The Mathematics of Terrorism	2013
Santa Fe Institute, Santa Fe NM (31 Aug2 Sept) With B. Tivnan (MITRE)  • Statistical Inference for Complex Networks	2009
Santa Fe Institute, Santa Fe NM (3–5 December) With C. Moore (New Mexico, SFI)	2008
<ul> <li>Navigability and Complex Networks Santa Fe Institute, Santa Fe NM (4–6 August) With D. Krioukov (UCSD) and kc claffy (UCSD) </li> <li>Is There a Physics of Society?</li> </ul>	2008
Santa Fe Institute, Santa Fe NM (10–12 Januarry) With M. Girvan (Maryland)	2008
Conferences (Organizer or co-organizer)	
• 2 <sup>nd</sup> Computer Science at UNM Student Research Conference, Conference Chain Albuquerque NM, (3 March)	r, 2006
• 1 <sup>st</sup> Computer Science at UNM Student Research Conference, Conference Chair	,
Albuquerque NM, (4 March)	2005
Program Committees	
- ,	016 - 2018, 2023 015 - 2018, 2020
<ul> <li>International Conference on Network Science (NetSci, main cycle)</li> <li>World Wide Web Conference (WWW)</li> </ul>	2010 - 2018, $2020$
	2018, 2020, 2022
• (PC co-chair) International Conference on Computational Social Science (IC2S	
• (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
- , , ,	016 - 2018, 2020
<ul> <li>International AAAI Conference on Web and Social Media (ICWSM)</li> <li>(Senior PC) International Conference on Computational Social Science (IC2S2)</li> </ul>	$2014 - 2017 \\ 2016$
• (Senior PC) International Conference on Computational Social Science (IC2S2) • AAAI Conference on Artificial Intelligence (AAAI)	2016
• International Conference on Complex Networks (CompleNet)	2009 - 2010
• Workshop on Simplifying Complex Networks for Practitioners (SIMPLEX)	2010

<ul> <li>ACM International Conference on Web Search and Data Mining (WSDM)</li> <li>Workshop on Social Network Mining and Analysis (at ACM SIGKDD)</li> <li>Workshop on Analysis of Dynamic Networks (at SIAM ICDM)</li> <li>Workshop on Analyzing Graphs: Theory and Applications (at NIPS)</li> <li>International Workshop on Experimental Algorithms</li> </ul>	$2010 \\ 2008 - 2009 \\ 2009 \\ 2008 \\ 2006$
Institutional Committees & Sarvice	
<ul> <li>Institutional Committees &amp; Service</li> <li>Colorado, College of Engineering and Applied Science (CEAS) Multi-Disciplinary Committee, Chair</li> <li>Colorado, BioFrontiers Institute, Council</li> <li>Colorado, Computational Biology Minor (CBIO), Director (founding)</li> <li>Colorado, Computational Biology Minor (CBIO), Curriculum Committee</li> <li>Colorado, Computer Science, Executive Committee</li> <li>Colorado, BioFrontiers Institute, Computing Committee</li> <li>Colorado, Interdisciplinary Quant. Biology (IQBio) Curriculum Committee</li> <li>Colorado, Interdisciplinary Quant. Biology (IQBio) liaison with CS</li> <li>Colorado, Computer Science, CRA CERP point-of-contact</li> <li>Colorado, Computer Science, Teaching Circles, Director (founding)</li> <li>Colorado, Provost's Faculty Achievement Award Committee</li> <li>Colorado, BioFrontiers Faculty Search Committee, Co-chair</li> <li>Colorado, Computer Science, Faculty Search Committee</li> <li>Colorado, Computer Science, Executive Committee</li> <li>Colorado, Computer Science, Executive Committee</li> <li>Colorado, Computer Science, Executive Committee</li> <li>Colorado, Computer Science, Graduate Committee</li> </ul>	Faculty Search 2022 2010 - present 2018 - present 2018 - present 2021 - present 2015 - present 2017 - present 2010 - present 2016 - 2022 2019 - 2022 2020 - 2021 2016 - 2017 2012 - 2016 2014 - 2015 2013 - 2015 2010 - 2012
• Colorado, Interdisciplinary Quant. Biology (IQBio) Mentoring Committee	2011 - 2012
• Santa Fe Institute, Colloquium Committee	2007 - 2009
<ul> <li>Professional Society Leadership Positions</li> <li>Co-founder and Administrator, Zachary Karate Club CLUB Prize in Network Scinetworkkarate.tumblr.com</li> <li>Erdős-Rényi Prize selection committee, Network Science Society</li> <li>President, UNM Computer Science Grad. Student Assoc. (CSGSA)</li> <li>Vice President, UNM Computer Science Grad. Student Assoc. (CSGSA)</li> <li>Professional Society Memberships (current)</li> <li>American Association for the Advancement of Science (AAAS)</li> <li>International Society for Scientometrics and Informetrics (ISSI)</li> </ul>	zience 2013 – present 2020 2004 – 2005 2003 – 2004
• Complex Systems Society (CSS)	
<ul><li>Network Science Society</li><li>Sigma Xi (Full Member)</li></ul>	
<ul> <li>Founder and project lead for Colorado Index of Complex Networks (ICON)</li> <li>icon.colorado.edu</li> <li>public index of &gt;5407 publicly accessible network science data sets</li> </ul>	2016 – present
• Science blogger at Structure+Strangeness	2005 – present
- aaronclauset.github.io, 5 entries	2017 – present
- structureandstrangeness.com (defunct), 366 entries and >500,000 page hits	-
Science microblogger on Mastodon @aaronclauset@fediscience.org $-\ 501\ {\rm followers}$	2022 – present
- 8 toots	0010
<ul> <li>Science microblogger on Twitter @aaronclauset</li> <li>- 11,096 followers</li> <li>- 2807 tweets</li> </ul>	2012 – present
proud to be blooked by Staven Pinker sings at least 2021	

- proud to be blocked by Steven Pinker since at least 2021

Synergistic Activities

<ul> <li>Wikipedia contributor (various science and mathematics articles)</li> <li>Stackexchange contributor (various CS and mathematics questions)</li> <li>Public release of scientific data sets (open source; typically GPL or CC)</li> <li>LinkPrediction network corpus (with A. Ghasemian, H. Hosseinmardi)</li> <li>Parental leave policies, U.S. &amp; Canada (with A.C. Morgan, S.F. Way, D.B. Larremore)</li> <li>CommunityFitNet network corpus (with A. Ghasemian, H. Hosseinmardi)</li> <li>Degree sequences for 927 complex networks (with A.D. Broido)</li> <li>Faculty hiring networks for computer science, business, and history</li> <li>NFL 2009 network (with C. Aicher)</li> <li>Terrorist event sizes worldwide</li> <li>Body masses of all extant whale species</li> <li>Various binned quantities with heavy-tailed distributions (with Y. Virkar)</li> <li>9/11 hijackers association network</li> <li>Various quantities with heavy-tailed distributions (with M.E.J. Newman)</li> <li>Public release of working algorithms (open source; typically GPL or CC)</li> <li>Stacked topological model for link prediction in networks (Python; with A. Ghasemian)</li> <li>Scale-free network toolkit (Python; with A.D. Broido)</li> <li>neoSBM for metadata community detection (Python; with L. Peel)</li> <li>Block entropy statistical test (BESTest) for networks (Matlab; with D.B. Larremore)</li> <li>Minimum violation ranking sampling code (Matlab)</li> <li>Bipartite stochastic block model package (Matlab; with D.B. Larremore)</li> <li>Network change-point detection package (Matlab; with D.B. Larremore)</li> <li>Network change-point detection package (Matlab; with Y. Virkar)</li> <li>Power-law distributions with bins toolkit (Matlab)</li> <li>Terrorist organization simulation code (Matlab)</li> <li>Modularity landscape mapping software package (Python; with B.H. Good)</li> <li>Hierarchical random graph and missing-link prediction software package (C++)</li> <li>Species mass macroevolution simulation code (Matlab)</li> <li>Power-law distributions tool kit</li></ul>		- 2017
• Stackexchange contributor (various CS and mathematics questions) • Public release of scientific data sets (open source; typically GPL or CC)  LinkPrediction network corpus (with A. Ghasemian, H. Hosseinmardi)  Parental leave policies, U.S. & Canada (with A.C. Morgan, S.F. Way, D.B. Larremore)  CommunityFitNet network corpus (with A. Ghasemian, H. Hosseinmardi)  Degree sequences for 927 complex networks (with A.D. Broido)  Faculty hiring networks for computer science, business, and history  NFL 2009 network (with C. Aicher)  Terrorist event sizes worldwide  Body masses of all extant whale species  Various binned quantities with heavy-tailed distributions (with Y. Virkar)  9/11 hijackers association network  Various quantities with heavy-tailed distributions (with M.E.J. Newman)  Public release of working algorithms (open source; typically GPL or CC)  Configuration model sampler (Python; with U. Dutta)  Scale-free network toolkit (Python; with A.D. Broido)  Scale-free network toolkit (Python; with A.D. Broido)  neoSBM for metadata community detection (Python; with L. Peel)  Block entropy statistical test (BESTest) for networks (Matlab; with D.B. Larremore)  Network change-point detection package (Matlab)  Bipartite stochastic block model package (Matlab); with L. Peel)  Weighted stochastic block model package (Matlab; with D.B. Larremore)  Network change-point detection package (Matlab; with Y. Virkar)  Power-law distributions with bins toolkit (Matlab)  Terrorist organization simulation code (Matlab)  Modularity landscape mapping software package (Python; with B.H. Good)  Hierarchical random graph and missing-link prediction software package (C++)  Species mass macroevolution simulation code (Matlab)  Power-law distributions tool kit (Matlab and R; with C.R. Shalizi)	Pacific Standard, Slate, Christian Science Monitor, and Chronicle of Higher Education	
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<ul> <li>Modularity landscape mapping software package (Python; with B.H. Good)</li> <li>Hierarchical random graph and missing-link prediction software package (C++)</li> <li>Species mass macroevolution simulation code (Matlab)</li> <li>Power-law distributions tool kit (Matlab and R; with C.R. Shalizi)</li> </ul>	- Rare event forecasting tool kit (Matlab)	2012
<ul> <li>Hierarchical random graph and missing-link prediction software package (C++)</li> <li>Species mass macroevolution simulation code (Matlab)</li> <li>Power-law distributions tool kit (Matlab and R; with C.R. Shalizi)</li> </ul>	- Terrorist organization simulation code (Matlab)	2011
<ul> <li>Species mass macroevolution simulation code (Matlab)</li> <li>Power-law distributions tool kit (Matlab and R; with C.R. Shalizi)</li> </ul>	- Modularity landscape mapping software package (Python; with B.H. Good)	2010
– Power-law distributions tool kit (Matlab and R; with C.R. Shalizi) 2007	- Hierarchical random graph and missing-link prediction software package (C++)	2008
· · · · · · · · · · · · · · · · · · ·	- Species mass macroevolution simulation code (Matlab)	2008
- Local-modularity network clustering algorithm (C++)	- Power-law distributions tool kit (Matlab and R; with C.R. Shalizi)	2007
Local modularity network clastering algorithm (C++)	- Local-modularity network clustering algorithm (C++)	2005
- Fast-modularity network clustering algorithm (C++) 2004	- Fast-modularity network clustering algorithm (C++)	2004