Aaron Clauset

CONTACT INFORMATION	Department of Computer Science University of Colorado at Boulder 430 UCB Boulder CO, 80309-0430 USA	<pre>voice: 303-492-6643 fax: 303-492-2844 email: aaron.clauset@colo web: aaronclauset.githu</pre>	
RESEARCH INTERESTS	Network science (methods, theories, applications); ing; Models and simulations; Collective dynamics and forecasting; Computational social science; Con	and complex systems; Rare e	events, power laws
EDUCATION	Ph.D. Computer Science, University of New Mexic B.S. Physics, Haverford College (with honors and		2002 - 2006 ence) $1997 - 2001$
ACADEMIC POSITIONS	Associate Professor, Computer Science Dept., United Core Faculty, BioFrontiers Institute, University of External Faculty, Santa Fe Institute Affiliated Faculty, Ecology & Evo. Biology Dept., Affiliated Faculty, Applied Mathematics Dept., United Faculty, Information Dept., University of Assistant Professor, Computer Science Dept., United Omidyar Fellow, Santa Fe Institute	Colorado, Boulder University of Colorado, Boulder niversity of Colorado, Boulder of Colorado, Boulder	2018 – present 2010 – present 2012 – present 2011 – present 2012 – present 2012 – present 2015 – present 2010 – 2018 2006 – 2010
EDITORIAL Positions	Deputy Editor, Science Advances, AAAS Associate Editor, Science Advances, AAAS Associate Editor, Journal of Complex Networks, C	Oxford University Press	$\begin{array}{c} 2017 - \text{present} \\ 2014 - 2017 \\ 2012 - 2017 \end{array}$
Honors & Awards (Selected)	Provost Faculty Achievement Award, U. Colorado Top 20 Teachers, College of Engineering, U. Color Erdős-Rényi Prize in Network Science NSF CAREER Award Kavli Fellow Santa Fe Institute Public Lecturer (http://bit.1 Graduation Speaker, U. New Mexico School of En Outstanding Graduate Student Award, U. New M	ado, Boulder y/I6t9gf) gineering Convocation	2019 2016 2016 2015 2014 2010 2006 2006
GOOGLE SCHOLAR	scholar.google.com/citations?user=e7VI_HcA	AAAJ	
	* indicates an undergraduate coauthor; ° indicates	s equal contribution	
Manuscripts Under Review	E. Lee, A. Clauset °, and D. B. Larremore°, "The dynamics of faculty hiring networks." Submitted (2021). (Preprint at arxiv:2105.02949)		
	A. C. Morgan, N. LaBerge, D. B. Larremore, M. Cacademic faculty." Submitted (2021). (Preprint at		
Publications (Refereed)	H. Hosseinmardi, A. Ghasemian, A. Clauset, D. "Examining the consumption of radical content of USA (2021). (Preprint at arxiv:2011.12843)		
	A. J. Kavran and A. Clauset, "Denoising large sci		_

BMC Bioinformatics 22, article 157 (2021). (Preprint at https://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).
- 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 https://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 http://dx.doi.org/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), article 18 (Preprint at arxiv:1503.06772)
- **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 a special 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. Ghasemian, 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

- **A.** Clauset, K. Behbakht, B. G. Bitler, "Decoding the dynamic tumor microenvironment." To appear, *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

U. Dutta and A. Clauset, "Convergence criteria for sampling random graphs with specified degree sequences." Preprint at arxiv:2105.12120 (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, http://dx.doi.org/10.1101/092866 (2016).
- L. Fortunato and A. Clauset, "Revisiting the effect of red on competition in humans." Preprint, http://dx.doi.org/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). http://tinyurl.com/2gx7z51
- **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, http://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, http://bit.ly/2omFZbX (2017).
- J. Warner and A. Clauset, "The Academy's dirty secret." *Slate*, published online 23 February, http://slate.me/1MNdKGH (2015).
- J. Warner and A. Clauset, "What same-sex marriage means for the future of recreational weed." *Pacific Standard*, published online 24 October, http://bit.ly/1tdlut1 (2014).

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 Scientific & Technical Consultant, FullContact Inc., Denver CO Scientific & Technical Consultant, Institute for Defense Analysis, Alexandria VA Corporate Advisory Board, 33across LLC, New York NY Scientific & Technical Consultant, 33across LLC, New York NY Strategy & Management Consultant, FischerJordan LLC, New York NY	$\begin{array}{c} 2017 \\ 2015 - 2017 \\ 2010 - 2014 \\ 2008 - 2012 \\ 2007 - 2012 \\ 2005 \end{array}$	
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-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 Friedler (PI; Haverford)	,	
	NSF CISE III, \$1,173,487	2020 - 2023	
	"A New Synthesis for the Science of Science." PI		
	NSF SBE SMA Conference, \$40,418	2020 - 2021	
	'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 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 Jennii (co-PI; Santa Fe) DoD and AFOSR, MINERVA, \$2,568,889		
		2019 - 2022	
	"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		
	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 par PI , with Caroline Buckee (PI; Harvard)	asite antigens."
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
Facebook Inc. Microsoft Inc.	$2015 \\ 2014$
• Colloquium, Department of Integrated Physiology, University of Colorado, Bou tober 2021	lder CO, 11 Oc-
 Invited Speaker, University of Vermont, Burlington VT, 3 September 2021 Invited Speaker, "Network Science: Statistical approaches and beyond" Invited Statistical Meetings, Seattle WA, 7–12 August 2021 Invited Speaker, Complexity Interactive, Santa Fe Institute, Santa Fe NM, 14 J 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 Mexi NM, 31 March 2021 Invited Speaker, Centro de Ciencias de la Complejidad, Universidad Naciona 	
México, Mexico City, Mexico, 12 March 2021 • Invited Speaker, Network Science Working Group, University of Colorado Ansch	utz, Aurora CO,
 17 February 2021 Machine Learning Seminar, Workday Inc., Boulder CO, 17 July 2020 129 other invited talks, since 2004 	
Postdoctoral Fellows • Dr. Katherine Wootton	2021 – present
• Dr. Eun Lee	2020 – present
 Dr. Samuel F. Way Dr. Andrea Berardi Dr. Daniel B. Larremore Dr. Leto Peel 	$\begin{array}{c} 2017 - 2019 \\ 2015 - 2016 \\ 2012 - 2015 \\ 2013 - 2015 \end{array}$
Doctoral Students (all at Colorado) • Andrew Kavran	2016 – present

Chemistry and Biochemistry & IQ Biology; co-advised with N. Ahn

Computer Science; co-advised with D. B. Larremore

2019-present

 $\bullet\,$ Nicholas La
Berge

GIFTS

(UNRESTRICTED)

INVITED TALKS (RECENT)

Advising

• Katherine Spoon Computer Science; co-advised with D. B. Larremore • Ian Van Buskirk Computer Science; co-advised with D. B. Larremore • Lucy Van Kleunen Computer Science; co-advised with D. B. Larremore • Lucy Van Kleunen Computer Science; co-advised with L. Dee • Shimian (Sam) Zhang Applied Mathematics; NSF GRF • Allison C. Morgan (PhD, Computer Science) Dissertation: Quantifying Structural Inequalities in the Academic Workforce • Anna Broido (PhD, Applied Mathematics, and 1Q Biology) Dissertation: Characterizing the tails of degree distributions in real-world networks • Amir Chasemian (PhD, Computer Science) Dissertation: Limits of model selection, link prediction, and community detection • Nora Connor (PhD, Computer Science, and IQ Biology) Dissertation: Using data science to find interpretable answers for problems in ecology and political science • Abigail Z. Jacobs (PhD, Computer Science) Dissertation: Comparative, population-level analysis of social networks in organizations • Samuel F. Way (PhD, Computer Science, and IQ Biology) 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) Dissertation: Stabilizing and equalizing mechanisms alter community coexistence and macroevolutionary diversity patterns • Sears Merritt (PhD, Computer Science) Dissertation: Dynamics and structure in competitive social systems Masters Students (all at Colorado) • Upasana Dutta (MS Computer Science) Thesis: Ratchet mechanisms in macroevolutionary processes • Kansuke Ikehara (MS Computer Science) Thesis: The weighted stochastic block model • Pooneh Mortazavi (MS, Computer Science) Thesis: Cenome optimization and evolution modeling using genetic algorithm and GA-TRMR • Yogesh Virkar (MS, Computer Science) Thesis: Power-law distributions and binned empirical data Undergraduate Students
• Ian Van Buskirk Computer Science; co-advised with D. B. Larremore • Lucy Van Kleunen Computer Science; co-advised with L. Dee • Shimian (Sam) Zhang Applied Mathematics; NSF GRF • Allison C. Morgan (PhD, Computer Science) Dissertation: Quantifying Structural Inequalities in the Academic Workforce • Anna Broido (PhD, Applied Mathematics, and IQ Biology) Dissertation: Characterizing the tails of degree distributions in real-world networks • Amir Ghasemian (PhD, Computer Science) Dissertation: Limits of model selection, link prediction, and community detection • Nora Connor (PhD, Computer Science, and IQ Biology) Dissertation: Using data science to find interpretable answers for problems in ecology and political science • Abigail Z. Jacobs (PhD, Computer Science) - Abigail Z. Jacobs (PhD, Computer Science) Samuel F. Way (PhD, Computer Science, and IQ Biology) 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) Dissertation: Stabilizing and equalizing mechanisms alter community coexistence and macroevolutionary diversity patterns • Sears Merritt (PhD, Computer Science) Dissertation: Dynamics and structure in competitive social systems Masters Students (all at Colorado) • Upasana Dutta (MS Computer Science) Thesis: Ratchet mechanisms in macroevolutionary processes • Kansuka Ikehara (MS Computer Science) Thesis: Structure of complex networks across domains • Clristopher Aicher (Bs/MS Applied Mathematics) • Clristopher Aicher (Bs/MS Applied Mathematics) Thesis: Component and structure in codetion modeling using genetic algorithm and GA-TRMR • Yogesh Virkar (MS, Computer Science)
Computer Science; co-advised with D. B. Larremore • Lucy Van Kleunen Computer Science; co-advised with L. Dee • Shimian (Sam) Zhang Applied Mathematics; NSF GRF • Allison C. Morgan (PhD, Computer Science) Dissertation: Quantifying Structural Inequalities in the Academic Workforce • Anna Broido (PhD, Applied Mathematics, and IQ Biology) Dissertation: Characterizing the tails of degree distributions in real-world networks • Amir Ghasemian (PhD, Computer Science) Dissertation: Limits of model selection, link prediction, and community detection • Nora Connor (PhD, Computer Science, and IQ Biology) Dissertation: Using data science to find interpretable answers for problems in ecology and political science • Abigail Z. Jacobs (PhD, Computer Science) Dissertation: Comparative, population-level analysis of social networks in organizations • Samuel F. Way (PhD, Computer Science, and IQ Biology) 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) Dissertation: Stabilizing and equalizing mechanisms alter community coexistence and macroevolutionary diversity patterns • Sears Merritt (PhD, Computer Science) Dissertation: Dynamics and structure in competitive social systems Masters Students (all at Colorado) • Upasana Dutta (MS Computer Science) Thesis: Ratchet mechanisms in macroevolutionary processes • Kansuke Ikehara (MS Computer Science) Thesis: Structure of complex networks across domains • Christopher Aicher (BS/MS Applied Mathematics) • Christopher Aicher (BS/MS Applied Mathem
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Undergraduate Students
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
Thesis: Scaling laws in empirical networks • McKenzie Weller (BS Computer Science, Colorado) • Tetsumichi Umada (BS Computer Science, Colorado) 2016 – 2019 2016 – 2018
Thesis: Scaling laws in empirical networks • McKenzie Weller (BS Computer Science, Colorado) 2016 – 2019

 Dominic Tonozzi (BS Computer Sciene, Colorado) Christopher Aicher (BS/MS Applied Mathematics, Colorado) Kenneth Sheedlo (BS Comp. Sci., Colorado; Discovery Learning Apprent Andrew Zizzi (BS Aerospace, Colorado; Discovery Learning Apprentice) Kristen Hargett (BS Applied Math., Colorado) Zachary Newman (BS Math., Colorado; McNair Scholar & UROP) Abigail Jacobs (BS Math., Northwestern; REU) Amy Wesolowski (BS Math., C.o. Atlantic; REU) Benjamin Good (BS Physics, Swarthmore; REU) 	2014 - 2015 2011 - 2014 2011 - 2012 2011 - 2012 2011 - 2011 Summer 2011 Summer 2010 Summer 2010 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)	
	19, Spring 2020 – 2022
Colorado, CSCI 3352	, 1 0
• Network Analysis and Modeling* (graduate) Fall 2013,	2014, 2016, 2017, 2021
Colorado, CSCI 5352	
• Inference, Models and Simulation for Complex Systems* (graduate) Colorado, CSCI 7000	Fall 2010, 2011
	Spring 2014, 2017, 2018
Colorado, CSCI 3104	1 0 /
• History and Future of Computing* (undergraduate) Colorado, CSCI 4380	Spring 2015, 2016
• Design and Analysis of Algorithms (graduate)	Spring 2011 – 2013
Colorado, CSCI 5454	×F0 =
• Topics in Interdisciplinary Research* (graduate, co-taught with D. Larrer Colorado, CSCI 7000	more) Fall 2019 – 2021
Summer Schools	
• Faculty, Philosophy & Political Economy Graduate Summer Workshop, G	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, 2008–200	09; Ajitgarh India 2015
• Faculty, Summer Institute in Computational Social Science (SICSS), Bou	ılder CO 2018
• Faculty, Santa Fe Institute, Short Course on Exploring Complexity	2011 - 2016
ATT NIM 0011 W/ 1: / DC 0010 C/ (* 1 C/A 0010 A /	

- Albuquerque NM, 2011; Washington DC, 2012; Stanford CA, 2012; Austin TX, 2013; Santa Fe NM, 2015; Santa Fe NM, 2016

Referee Work

Teaching

- 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: 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), 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), SIM-PLEX (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 (22–23 November) With D. B. Larremore (Colorado) and M. Galesic (Santa Fe)

2021

• 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. Airoldi (Harvard), D. Choi (CMU), J. Ugander (Microsoft), and P. Toulis (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 (Colorado), Networks, From Craphe to Rich Data		2015
• Networks: From Graphs to Rich Data NIPS 2014, Montreal Canada (13 December)		2014
With E. Airoldi (Harvard), D. Choi (CMU), J. Ugander (Microsoft), and L. Pee		
• Mathematics Research Community Workshop on Network Science	i (Colorado	')
Snowbird UT (24–30 June)		2014
With M. A. Porter (Oxford) and D. Kempe (Southern Cal.)	•	2014
• 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)		2014
• Frontiers of Network Analysis: Methods, Models, and Applications	10)	
NIPS 2013, Lake Tahoe NV (9 December)		2013
With E. Airoldi (Harvard), D. Choi (CMU), K. El-Arini (Facebook), and J. Lesl		ora)
• Structure, Statistical Inference, and Dynamics in Networks: From Graphs to Ric		2012
Santa Fe Institute, Santa Fe NM (6–9 May)	•	2013
With C. Moore (SFI) and M.E.J. Newman (Michigan)		
• The Mathematics of Terrorism		2000
Santa Fe Institute, Santa Fe NM (31 Aug.–2 Sept)	2	2009
With B. Tivnan (MITRE)		
Statistical Inference for Complex Networks		2000
Santa Fe Institute, Santa Fe NM (3–5 December)	2	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 Januarry)		2008
With M. Girvan (Maryland)		
Conferences (Organizer or co-organizer)		
• 2 nd Computer Science at UNM Student Research Conference, Conference Chair		2004
Albuquerque NM, (3 March)		2006
• 1 st Computer Science at UNM Student Research Conference, Conference Chair,		2005
Albuquerque NM, (4 March)	:	2005
Program Committees		
• International Conference on Computational Social Science (IC2S2)	2016 - 5	2018
	015 - 2018, 2	
• World Wide Web Conference (WWW)	2010 - 2010, $2010 - 2010$	
· · · · · · · · · · · · · · · · · · ·	2010 - 2018, $2010 - 2018$, $2010 - 2018$	
-		
• (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 - 3	
• International Workshop on Mining and Learning With Graphs (MLG)	2016 - 2014	
• International AAAI Conference on Web and Social Media (ICWSM)	2014 - 2014	
• (Senior PC) International Conference on Computational Social Science (IC2S2)		2016
AAAI Conference on Artificial Intelligence (AAAI)		2014
• International Conference on Complex Networks (CompleNet)	2009 - 2	
Workshop on Simplifying Complex Networks for Practitioners (SIMPLEX) Of the Property		2010
• ACM International Conference on Web Search and Data Mining (WSDM)		2010
• Workshop on Social Network Mining and Analysis (at ACM SIGKDD)	2008 - 2	
• Workshop on Analysis of Dynamic Networks (at SIAM ICDM)	4	2009

 Workshop on Analyzing Graphs: Theory and Applications (at NIPS) International Workshop on Experimental Algorithms 	2008 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, BioFrontiers Institute, Computing Committee	2015 – present
• Colorado, Interdisciplinary Quant. Biology (IQBio) Curriculum Committee	2017 – present
• Colorado, Interdisciplinary Quant. Biology (IQBio) diaison with CS	2017 - present 2010 - present
• Colorado, Computer Science, CRA CERP point-of-contact	2016 – present 2016 – present
Colorado, Provost's Faculty Achievement Award Committee Colorado, Pia Frontiana Faculty Secondo Committee (see shair)	2020 - 2021
Colorado, BioFrontiers Faculty Search Committee (co-chair) Colorado, Committee Constante 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 (TOPI) M. 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 Networ	
http://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) 	
• Founder and project lead for Colorado Index of Complex Networks (ICON) - https://icon.colorado.edu	2016 – present
– public index of >5407 publicly accessible network science data sets	
• Science blogger at Structure+Strangeness	2005 - present
<pre>- https://aaronclauset.github.io</pre>	2017 – present
- 4 entries	
<pre>- http://structureandstrangeness.com</pre>	2005 - 2016
-366 entries and $>500,000$ page hits	
• Science microblogger on Twitter @aaronclauset	2012 – present
-9296 followers (top 1% of all users)	
-2407 tweets with mean 3.4 retweets per tweet (top $4%$ of all users)	
• 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

Synergistic Activities

 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 – p	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