Aaron Clauset

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RESEARCH INTERESTS	Network science — methods, data, theories, applications Epistemology — data science, statistical inference, machine learning, complex systems Science of science — social and epistemic inequalities, prestige economy, faculty Computational biology — oncology, genomics, networks, macroevolution			
EDUCATION	Ph.D. Computer Science, <i>University of New Mexico</i> B.S. Physics, <i>Haverford College</i> (with honors and control of the control o		· · · · · · · · · · · · · · · · · · ·	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., UnAffiliated Faculty, Applied Mathematics Dept., University of	iversity	of Colorado, Boulder	2011 – present 2012 – present 2015 – present
	Associate Professor, Computer Science Dept., <i>Univ</i> Assistant Professor, Computer Science Dept., <i>Univ</i> Omidyar Fellow, <i>Santa Fe Institute</i>			$\begin{array}{c} 2018 - 2022 \\ 2010 - 2018 \\ 2006 - 2010 \end{array}$
EDITORIAL POSITIONS	Deputy Editor, Science Advances, AAAS Associate Editor, Science Advances, AAAS Associate Editor, Journal of Complex Networks, Ox	xford Uı	niversity Press	2017 - present 2014 - 2017 2012 - 2017
Honors & Awards (Selected)	Fellow, Network Science Society Paper of the Year, International Society for Sciented Provost Faculty Achievement Award, U. Colorado, Erdős-Rényi Prize in Network Science Top 20 Teachers, College of Engineering, U. Colorado, NSF CAREER Award Kavli Fellow Santa Fe Institute Public Lecturer (YouTube record Graduation Speaker, U. New Mexico, School of Engoustanding Graduate Student Award, U. New Mexico	Boulder do, Bou	rulder g Convocation	2023 2021 2019 2016 2016 2015 2014 2010 2006 2006
GOOGLE SCHOLAR	scholar.google.com/citations?user=e7VI_HcAA	AAJ		
Manuscripts Under Review	* indicates an undergraduate coauthor; ° indicates L. Van Kleunen, L. E. Dee, K. L. Wootton, F. Mas in food webs using stacked models and species trait (Preprint at biorxiv.org/content/10.1101/2024)	ssol, and	l A. Clauset , "Predicti mitted (2024).	ng missing links

X. Zheng, M. Chowdhury, B. Mirpochoev, A. Clauset, R. M. Layer, F. J. Sedlazeck, "STIX: Long-reads based accurate structural variation annotation at population scale." Submitted (2024).

(Preprint at biorxiv.org/content/10.1101/2024.09.30.615931v1)

- D. R. Windham, C. J. Wendt, A. Crane, S. Friedler, B. D. Sullivan, and **A. Clauset**, "Fast algorithms to improve fair information access in networks." Submitted (2024). (Preprint at arxiv:2409.03127)
- W. Li, H. Zhenge, J. E. Brand, and A. Clauset, "Gender and racial diversity socialization in science." Submitted (2024).
- K. Spoon, J. Mendy*, M. Martinez*, M. Galesic, D. B. Larremore, A. Clauset, L. A. Rivera, "Gendered devaluation underlies faculty retention." Submitted (2024). (Preprint at osf.io/preprints/socarxiv/g6xwk)
- S. Zhang, N. LaBerge, S. F. Way, D. B. Larremore, and A. Clauset, "Scientific productivity as a random walk." Submitted (2023). (Preprint at arxiv:2309.04414)

Publications (Refereed)

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- U. Dutta, B. K. Fosdick, and **A. Clauset**, "Sampling random graphs with specified degree sequences." To appear, *Journal of Computational and Graphical Statistics* (2024). (Preprint at arxiv:2105.12120)
- D. Van Egdom, M. M. Piszczek, C. Spitzmueller, P. Lindner, A. Clauset, "Supporting academic parents: The effects of dependent care policies on research productivity trends." *Journal of Business and Psychology* (2024).
- L. Van Kleunen, M. Ahmadian, M. D. Post, R. Wolsky, C. Rickert, K. Jordan, J. Hu, J. K. Richer, K. Behbakht, M. J. Sikora, B. G. Bitler, A. Clauset, "The spatial structure of the tumor immune microenvironment can explain and predict patient response in high-grade serous carcinoma." *Cancer Immunology Research* 12(11): 1492–1507 (2024). (Preprint biorxiv.org/content/10.1101/2024.01.26.577350v1)
- X. He, A. Ghasemian, E. Lee, A. Schwarze, **A. Clauset**, and P. J. Mucha, "Link prediction accuracy on real-world networks under non-uniform missing edge patterns." *PLOS ONE* **19**(7), e0306883 (2024). (Preprint at arxiv:2401.15140)
- N. LaBerge, K. H. Wapman, A. Clauset, and D. B. Larremore, "Gendered hiring and attrition on the path to parity for academic faculty." *eLife* 13, RP93755 (2024).
- A. Greenwood, E. R. Woodruff, C. Nguyen, C. Piper, **A. Clauset**, L. W. Brubaker, K. Behbakht, B. G. Bitler, "Early ovarian cancer detection in the age of fallopian tube precursors: a systematic review." *Obstetrics & Gynecology* **143**(3), e63–e77 (2024).
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- K. Spoon, N. Laberge, K. H. Wapman, S. Zhang, A. C. Morgan, M. Galesic, B. K. Fosdick, D. B. Larremore, and A. Clauset, "Gender and retention patterns among U.S. faculty." *Science Advances* 9(42), eadi2205 (2023). (Preprint at osf.io/preprints/socarxiv/u26ze)
- I. V. Buskirk, **A. Clauset**, and D. B. Larremore, "An open-source cultural consensus approach to name-based gender classification." *Proc. 17th International AAAI Conference on the Web and Social Media* (ICWSM) **17**, 866–877 (2023). (Preprint at arxiv:2208.01714)

- N. LaBerge, K. H. Wapman, A. C. Morgan, S. Zhang, D. B. Larremore, and **A. Clauset**, "Subfield prestige and gender inequality in computer science." *Communications of the ACM* **65**(12), 46–55 (2022). (Preprint at arxiv:2201.00254)
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- 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* **6**, 1625–1633 (2022). (Preprint at osf.io/preprints/socarxiv/6wjxc)
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- 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)]
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- 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)
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- 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)
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- S. Merritt and A. Clauset, "Environmental structure and competitive scoring advantages in team competitions." *Scientific Reports* 3, 3067 (2013). (Preprint at arxiv:1304.1039)
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- 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 pre-Hispanic 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)
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- **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).
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- 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]
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Workshop Papers

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- 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)
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BOOK CHAPTERS

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- 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

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- F. Karimi and **A. Clauset**, "Abolish ageism in early-career research awards." *Nature* **620**, 492 (2023). doi:10.1038/d41586-023-02567-9
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- A. Clauset, K. Behbakht, B. G. Bitler, "Decoding the dynamic tumor microenvironment." *Science Advances* 7(23), eabi5904 (2021). doi:10.1126/sciadv.abi5904
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- 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

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- 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 (2017).
- D. B. Larremore and A. Clauset, "Why predicting the future is more than just horseplay." *The Christian Science Monitor*, published online 24 April (2017).
- J. Warner and **A. Clauset**, "The Academy's dirty secret." *Slate*, published online 23 February (2015).
- J. Warner and A. Clauset, "What same-sex marriage means for the future of recreational weed." *Pacific Standard*, published online 24 October (2014).

BOOK ENDORSEMENTS

- M. Coscia, The Atlas for the Aspiring Network Scientist. (2nd ed.) (2024). \rightarrow "The Atlas is an essential resource for scientists in every field who want to understand their networks better."
- 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, 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
"Using advanced computational analysis to predict ovarian cancer outcomes." PI , with Ben Bitler (PI; Anschutz)	
University of Colorado, AB Nexus seed grant program, \$124,105	2024 - 2025
"The impact of socioeconomic heterogeneity on science and innovation." PI , with Daniel E. Acuña (co-PI; Colorado) and Daniel B. Larremore (co-PI; Color NSF SBE, \$400,000	rado) 2024 – 2027
"Assessing bias and idiosyncrasies in elite scientific peer review."	
PI, with Daniel B. Larremore (co-PI; Colorado)	

"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

"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

"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

2022 - 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, \$1,173,487

2020 – 2024

"A New Synthesis for the Science of Science."

 \mathbf{PI}

NSF SBE, \$501,890

Grants (PI or co-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

[&]quot;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." 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." 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." 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 - 2012Facebook Inc. 2015 Microsoft Inc. 2014

INVITED TALKS (Recent)

(UNRESTRICTED)

GIFTS

- Invited Speaker, American Institute of Mathematics, Pasadena CA, 8–12 December 2025
- Keynote Speaker, Oxford Summer School in Economic Networks, Oxford UK, 23–27 June 2025
- Seminar, Department of Cognitive & Information Sciences, University of California, Merced CA, 24 February 2025
- Colloquium, Integrative Physiology Department, University of Colorado, Boulder CO, 28 October 2024
- Invited Speaker, College of Engineering and Applied Sciences, University of Colorado, Boulder CO, 11 October 2024
- Gordon Rausser Keynote Address, Agricultural & Applied Economics Association annual meeting, New Orleans LA, 28 July 2024

- Invited Speaker, WNAR Annual Conference, Ft. Collins CO, 10 June 2024
- Invited Speaker, Colloquium, Chemical & Biomolecular Engineering Department, Cornell University, Ithaca NY, 3 April 2024
- Invited Speaker, Symposium on Diversity and Equality in Physics, German Physical Society annual meeting, Berlin Germany, 19 March 2024
- Invited Speaker, Entrepreneurship and Innovation Seminar, University of California, Berkeley CA, 28 February 2024
- Seminar, Academic Analytics Research Center, 1 February 2024
- Colloquium, Department of Computer Science, University of Memphis, Memphis TN, 1 December 2023
- 162 other invited talks, since 2004

Advising

Postdoctoral Fellows

• Dr. Lucy Van Kleunen	2024
• Dr. Katherine Wootton	2021-2022
• Dr. Eun Lee	2020 - 2022
• Dr. Samuel F. Way	2017 - 2019
• Dr. Andrea Berardi	2015-2016
• Dr. Daniel B. Larremore	2012 - 2015
• Dr. Leto Peel	2013 - 2015

Doctoral Students (all at Colorado)

2024 - present
2023 - present
2024 - present
2020 - present
2024

- Ian Van Buskirk (PhD Computer Science, co-advised with D. B. Larremore)
 Dissertation: Datasets and Software for Estimating Consensus in Social Systems
 Nicholas LaBerge (PhD Computer Science, co-advised with D. B. Larremore)
 2024
- Nicholas LaBerge (PhD Computer Science, co-advised with D. B. Larremore) 202-Dissertation: Gender inequalities and peer review disparities in the academic workforce
- Shimian (Sam) Zhang (PhD Applied Mathematics)

 Dissertation: Statistical models of scientific careers and decision-making
- Lucy Van Kleunen (PhD Computer Science, co-advised with L. Dee)

 2024
 Dissertation: Interpretable prediction and decision-making under uncertainty using biological networks
- Andrew J. Kavran (PhD Biochemistry, and IQ Biology, co-advised with N. Ahn)
 Dissertation: Intermittent drug treatment of BRAF^{V600E} melanoma cells delays resistance by adaptive resensitization to drug rechallenge
- adaptive resensitization to drug rechallenge
 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) 2018 Dissertation: Using data science to find interpretable answers for problems in ecology and political
- 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)	2017
Dissertation: Systematic inequalities in the composition and productivity of the composition and the composition a	
faculty • Lauren C. Shoomeker (PhD Feelegy & Evolutionary Biology and IO Biology)	
• Lauren G. Shoemaker (PhD Ecology & Evolutionary Biology, and IQ Biology, co-advised with B. Melbourne)	2017
Dissertation: Stabilizing and equalizing mechanisms alter community coexistent lutionary diversity patterns	
• Sears Merritt (PhD Computer Science)	2013
Dissertation: Dynamics and structure in competitive social systems	
Masters Students (all at Colorado)	
• Bisman Singh (MS Applied Mathematics)	2024
Thesis: Predicting algorithm performance for missing link prediction in real-we	
• Dennis Windham (MS Computer Science)	2024
Thesis: Refining the Framework for Closing Gaps in Information Access in Ne	
Behzod Mirpochoev (MS Computer Science) The size of Provident to I for activation with the formation with Hardy Weights The size of Provident to I for activation with the formation with the size of the III for activation with the size of the III for activation with the size of the III for activation with the III for activation wi	2024
Thesis: A Bayesian tool for estimating allele frequencies via Hardy-Weinber structural variants	rg equiliorium for
• Upasana Dutta (MS Computer Science)	2022
Thesis: Sampling random graphs with specified degree sequences	2022
• Trevor DiMartino (MS Computer Science)	2017
Thesis: Ratchet mechanisms in macroevolutionary processes	
• Kansuke Ikehara (MS Computer Science)	2017
Thesis: Structure of complex networks across domains	
• Christopher Aicher (BS/MS Applied Mathematics)	2014
Thesis: The weighted stochastic block model	2012
Pooneh Mortazavi (MS, Computer Science) The size of a section of the sectio	2013
Thesis: Genome optimization and evolution modeling using genetic algorithm • Yogesh Virkar (MS, Computer Science)	ana GA-176MA 2012
Thesis: Power-law distributions and binned empirical data	2012
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Undergraduate Students	
Behzod Mirpochoev (BS Computer Science, Colorado) The Control of the Contro	2022 - 2023
Thesis: Classification of genomic structural variants	0000 0001
• Skylar Martin (BS Computer Science, Colorado) Thesis: PhageOne: Inferring the grammar of bacteriophage genomes	2020 - 2021
 Nicholas Cordaro (BS Biochemistry, Colorado) 	2019 - 2020
• Christoph Uhl (BS Computer Science, Colorado)	2013 - 2020 $2018 - 2020$
• Alexander Ray (BS Computer Science, Colorado)	2017 - 2019
Thesis: Scaling laws in empirical networks	
• McKenzie Weller (BS Computer Science, Colorado)	2016 - 2019
• Tetsumichi Umada (BS Computer Science, Colorado)	2016 - 2018
• Ellen Tucker (BS Mathematics, Colorado)	2015 - 2016
• Matthias Sainz (BS Computer Science, Colorado)	2014 - 2016
• Dominic Tonozzi (BS Computer Sciene, Colorado)	2014 - 2015
• Christopher Aicher (BS/MS Applied Mathematics, Colorado)	2011 - 2014
• Kenneth Sheedlo (BS Comp. Sci., Colorado; Discovery Learning Apprentice)	2011 - 2012
 Andrew Zizzi (BS Aerospace, Colorado; Discovery Learning Apprentice) Kristen Hargett (BS Applied Math., Colorado) 	2011 - 2012 2011
• Zachary Newman (BS Math., Colorado; McNair Scholar & UROP)	Summer 2011
• Abigail Jacobs (BS Math., Northwestern; REU)	Summer 2011 Summer 2010
• Amy Wesolowski (BS Math., C.o. Atlantic; REU)	Summer 2010 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 Summer 2009
- Andrew Mauboussin (Darien High School, CT)

TEACHING

University Courses (* indicates a new course)

• Biological Networks* (undergraduate) Fall 2019, 2024, Spring 2020 - 2024 Colorado, CSCI 3352

• Network Analysis and Modeling* (graduate) Fall 2013, 2014, 2016, 2017, 2021, 2022 Colorado, CSCI 5352

• Algorithms (undergraduate) Spring 2014, 2017, 2018 Colorado, CSCI 3104

• History and Future of Computing* (undergraduate) Spring 2015, 2016 Colorado, CSCI 4380

• Design and Analysis of Algorithms (graduate) Spring 2011 - 2013 Colorado, CSCI 5454

• Inference, Models and Simulation for Complex Systems* (graduate) Fall 2010, 2011 Colorado, CSCI 7000

Fall 2019 - 2022, Spring 2022, 2023 Topics in Interdisciplinary Research* (graduate) Colorado, CSCI 7000 (co-taught with D. Larremore)

Summer School Courses

• Santa Fe Institute, Complex Systems Summer School (CSSS) 2007 - 2023Santa Fe NM, 2007, 2008, 2013, 2014, 2016 – 2019, 2022, 2023; Beijing China, 2008, 2009; Ajitgarh India 2015

• Science of Science Summer School (S4), Syracuse U.

• Philosophy & Political Economy Graduate Summer Workshop, Chapman U. 2021

2022

2021

• Santa Fe Institute, Complexity Interactive

• Summer Institute in Computational Social Science (SICSS), Boulder CO 2018

• Santa Fe Institute, Short Course on Exploring Complexity 2011 - 2016Albuquerque NM, 2011; Washington DC, 2012; Stanford CA, 2012; Austin TX, 2013; Santa Fe NM, 2015; Santa Fe NM, 2016

Referee Work

- Applied Math and Statistics: Annals of Applied Statistics, EPJ Data Science, SIAM ICDM Workshop on Analysis of Dynamic Networks (2009), 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, Social Policy & Administration, 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

National

Member, Computing Research Association (CRA) Survey Committee
 Member, Committee on Pathways to Doctoral Degrees in Computing
 CSTB, National Academies of Science, Engineering, and Medicine (NASEM)

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
NIPS 2015, Montreal Canada (12 December)

2015

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)

2015

With D. B. Larremore (Harvard), L. Peel (Colorado), and A. Z. Jacobs (Colorado)

• Networks: From Graphs to Rich Data NIPS 2014, Montreal Canada (13 December) With E. Airoldi (Harvard), D. Choi (CMU), J. Ugander (Microsoft), and L. Peel (Colorad	2014 o)
• Mathematics Research Community Workshop on Network Science	
Snowbird UT (24–30 June)	2014
With M. A. Porter (Oxford) and D. Kempe (Southern Cal.)	
Statistical Inference for Network Models Note: 12014	201.4
NetSci 2014, Satellite Workshop, Berkeley CA (2 June)	2014
With D. B. Larremore (Harvard), L. Peel (Colorado), and A. Z. Jacobs (Colorado)	
• Frontiers of Network Analysis: Methods, Models, and Applications NIPS 2013, Lake Tahoe NV (9 December)	2013
With E. Airoldi (Harvard), D. Choi (CMU), K. El-Arini (Facebook), and J. Leskovec (Stan	
• Structure, Statistical Inference, and Dynamics in Networks: From Graphs to Rich Data	noruj
Santa Fe Institute, Santa Fe NM (6–9 May)	2013
With C. Moore (SFI) and M.E.J. Newman (Michigan)	2010
• The Mathematics of Terrorism	
Santa Fe Institute, Santa Fe NM (31 Aug.–2 Sept)	2009
With B. Tivnan (MITRE)	
Statistical Inference for Complex Networks	
Santa Fe Institute, Santa Fe NM (3–5 December)	2008
With C. Moore (New Mexico, SFI)	
• Navigability and Complex Networks	
Santa Fe Institute, Santa Fe NM (4–6 August)	2008
With D. Krioukov (UCSD) and kc claffy (UCSD)	
• Is There a Physics of Society?	
Santa Fe Institute, Santa Fe NM (10–12 Januarry)	2008
With M. Girvan (Maryland)	
()	
Conferences (Organizer or co-organizer)	
Conferences (Organizer or co-organizer) • 2 nd Computer Science at UNM Student Research Conference, Conference Chair,	2006
 Conferences (Organizer or co-organizer) 2nd Computer Science at UNM Student Research Conference, Conference Chair, Albuquerque NM, (3 March) 	2006
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Conferences (Organizer or co-organizer) • 2 nd Computer Science at UNM Student Research Conference, Conference Chair, Albuquerque NM, (3 March) • 1 st Computer Science at UNM Student Research Conference, Conference Chair, Albuquerque NM, (4 March) Program Committees • International Conference on Computational Social Science (IC2S2) 2016 – 2018, 2023 – Atlanta Conference on Science and Innovation Policy (ATLC) • International Conference on Network Science (NetSci, main cycle) 2015 – 2018, World Wide Web Conference (WWW) 2010 – SIAM Workshop on Network Science (NS) 2013, 2017, 2018, 2020, • (PC co-chair) International Conference on Computational Social Science (IC2S2) • (Senior PC) International Conference on Network Science (NetSci, main cycle) • (Senior PC) World Wide Web Conference (WWW) • International Conference on Network Science (NetSci-X)	2005 2024 2023 2020 2018 2022 2017 2017 2017
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Advisory Boards

• University Advisory Board, *Industry of Ideas*, Social Science Research Council 2024 – present

Institutional Committees & Service

• Colorado, BioFrontiers Institute, Council	2010 – present
• Colorado, Member, School of Computing Task Force	2024 – present
• Colorado, College of Engineering & Applied Science (CEAS),	2023 – present
First Level Review Committee	-
• Colorado, Computational Biology Minor (CBIO), Director (founding)	2018 – present
• Colorado, Computational Biology Minor (CBIO), Curriculum Committee	2018 – present
• Colorado, BioFrontiers Institute, Computing Committee	2015 – present
• Colorado, Interdisciplinary Quant. Biology (IQBio) Curriculum Committee	2017 – present
• Colorado, Advisory Group, Clarivate Partnership in Research Intelligence	2024 – present
• Colorado, Computer Science, Executive Committee	2021 - 2024
• Colorado, BioFrontiers Outstanding Contribution Award Review Committee	2023 - 2024
• Colorado, Computer Science, Strategic Planning Committee, Co-chair	2023
• Colorado, College of Engineering & Applied Science (CEAS)	2022 - 2023
Multi-Disciplinary Faculty Search Committee, Chair	
• Colorado, Computer Science, CRA CERP point-of-contact	2016 - 2022
• Colorado, Computer Science, Teaching Circles, Director (founding)	2019 - 2022
• Colorado, Provost's Faculty Achievement Award Committee	2020 - 2021
• Colorado, BioFrontiers Faculty Search Committee, Co-chair	2016 - 2017
• Colorado, Computer Science, Faculty Search Committee	2012 - 2016
• Colorado, BioFrontiers Faculty Search Committee, Co-chair	2014 - 2015
• Colorado, Computer Science, Executive Committee	2013 - 2015
• Colorado, Computer Science, Graduate Committee	2010 - 2012
• Colorado, Interdisciplinary Quant. Biology (IQBio) Mentoring Committee	2011 - 2012
• Santa Fe Institute, Colloquium Committee	2007 - 2009

Professional Society Leadership Positions

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

Professional Society Memberships (current)

- American Association for the Advancement of Science (AAAS)
- International Society for Scientometrics and Informetrics (ISSI)
- Complex Systems Society (CSS)
- Network Science Society
- Sigma Xi (Full Member)

Synergistic Activities

• Founder and project lead for Colorado Index of Complex Networks (ICON)	2016 – present
- icon.colorado.edu	
– public index of >5407 publicly accessible network science data sets	
• Science blogger at Structure+Strangeness	2005 - present
- aaronclauset.github.io, 5 entries	2017 - present
- structureandstrangeness.com (defunct), 366 entries and >500,000 page hits	2005 - 2016
• Science microblogger on Bluesky @aaronclauset.bsky.social	2023 – present
- 4700+ followers	
• Science microblogger on Mastodon @aaronclauset@fediscience.org	2022 - present

• 5	- 11,201 followers / 3022 tweets	- 2024
-	- proud to be blocked by Steven Pinker since at least 2021	
	1	- 2017
	Pacific Standard, Slate, Christian Science Monitor, and Chronicle of Higher Education	
	Wikipedia contributor (various science and mathematics articles) 2006 – p	
	Stackexchange contributor (various CS and mathematics questions) 2011 – p	
	Public release of scientific data sets (open source; typically GPL or CC) 2007 – p	resent
	Fairness in networks data corpus (Python; with D. Windham)	2024
	- LinkPrediction network corpus (with A. Ghasemian, H. Hosseinmardi)	2019
	- Parental leave policies, U.S. & Canada (with A.C. Morgan, S.F. Way, D.B. Larremore)	2018
	- CommunityFitNet network corpus (with A. Ghasemian, H. Hosseinmardi)	2018
	- Degree sequences for 927 complex networks (with A.D. Broido)	2018
	- Faculty hiring networks for computer science, business, and history	2015
-	- NFL 2009 network (with C. Aicher)	2014
	- Terrorist event sizes worldwide	2013
	- Body masses of all extant whale species	2013
	- Various binned quantities with heavy-tailed distributions (with Y. Virkar)	2012
	- 9/11 hijackers association network	2008
	- Various quantities with heavy-tailed distributions (with M.E.J. Newman)	2007
	Public release of working algorithms (open source; typically GPL or CC) 2004 – p	
	Fairness in networks algorithms (Python; with D. Windham)	2024
	- Configuration model sampler (Python; with U. Dutta)	2022
	- 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