Curriculum Vitae

Daniel B. Larremore		
Contact Information		
BioFrontiers Institute 3415 Colorado Ave. Boulder, CO 80303, USA +1-303-735-8757	Website: <u>LarremoreLab</u> Email: <u>daniel.larremore</u> Google Scholar: <u>here</u> Github: <u>@DBLarremo</u>	@colorado.edu
ducation		
University of Colorado Boulder, Department of A Ph.D in Applied Mathematics. Advisor: Juan G. Restr "Critical Dynamics in Complex Excitable Networks"		2012
University of Colorado Boulder, Department of A M.S. in Applied Mathematics	pplied Mathematics	2009
Washington University in St. Louis , School of Eng B.S. in Chemical Engineering, <i>cum laude</i>	gineering and Applied Science	2005
cademic Positions		
University of Colorado Associate Professor, Department of Computer Science Assistant Professor, Department of Computer Science Core Faculty, BioFrontiers Institute Affiliate Faculty, Department of Applied Mathematics		Boulder, CO 2023 - Present 2017 - 2023 2017 - Present 2020 - Present
Harvard T.H. Chan School of Public Health External Faculty, Center for Communicable Disease Dynamic	x.	Boston, MA 2020 - Present
Santa Fe Institute Omidyar Fellow		Santa Fe, NM 2015 - 2017
Harvard School of Public Health, Center for Com Postdoctoral Fellow with Caroline Buckee (HSPH) and		Boston, MA 2012 - 2015
ditorial Positions		
PLOS Computational Biology Academic Editor		San Francisco, CA 2022 - Present
wards		
 Alan T. Waterman Award, National Science Four Brilliant 10, Popular Science Robert L. Stearns Award, University of Colorado Provost's Faculty Achievement Award, University 	Boulder ty of Colorado Boulder	2022 2022 2021 2021

• Research & Innovation Office Faculty Fellow, University of Colorado Boulder

• Best Poster – Genetic Epidemiology of Malaria, Sanger Institute

• Best Poster – NetSci 2014, Berkeley, CA

• Best Poster – Dynamics Days 2010, Evanston, IL

2020

2018

2014

2010

- * equal contribution † alphabetical author order
- **advised student coauthor

Peer-Reviewed Journal Articles

- 1. **D. B. Larremore**,* K. Joseph*, A. Hannak*, A. Cimpian*, "Explaining Gender Differences in Academics' Career Trajectories." *In Press, Journal of Personality and Social Psychology: Attitudes and Social Cognition* (2023).
- 2. ★ I. Van Buskirk, A. Clauset, **D. B. Larremore**. "An Open-Source Cultural Consensus Approach to Name-Based Gender Classification", *To appear at ICWSM* (2023).
- 3. T. S. Brown, P. Martinez de Salazar Munoz, A. Bhatia, B. Bunda, E. K. Williams, D. Bor, J. S. Miller, A. Mohareb, V. Naranbai, W. Garcia Beltran, T. E. Miller, J. Thierauf, W. Yang, D. Kress, K. Stelljes, K. Johnson, **D. B. Larremore**, J. Lennerz, A. J. Iafrate, S. Balsari, C. O. Buckee, Y. H. Grad. "GPS-estimated foot traffic data and venue selection for COVID-19 serosurveillance studies." *In Press, BMJ Open* (2023).
- 4. S. Ruybal-Pesántez, F. E. Sáenz, S. Deed, ★ E. K. Johnson, **D. B. Larremore**, C. A. Vera-Arias, K. E. Tiedje, K. P. Day. "Evolution of Plasmodium falciparum var repertoires by sexual recombination sustains disease transmission after an outbreak in Ecuador" *In Press, Frontiers in Tropical Diseases* (2023).
- 5. ★ N. LaBerge, ★ K. H. Wapman, A. C. Morgan, S. Zhang, **D. B. Larremore**, Aaron Clauset. "Subfield Prestige and Gender Inequality in Computing." *Communications of the ACM* 65(12), 46-55(2022).
- 6. S. Zhang, ★ K. H. Wapman, D. B. Larremore, Aaron Clauset. "Labor advantages drive the greater productivity of faculty at elite universities." *Science Advances* 8 (46), eabq7056, (2022).
- 7. **D. B. Larremore**, B. K. Fosdick, S. Zhang, Y. H. Grad. "Optimizing prevalence estimates for a novel pathogen by reducing uncertainty in test characteristics." *Epidemics* 41, 100634. (2022).
- 8. ★ E. K. Johnson, **D. B. Larremore**. "Bayesian estimation of population size and overlap from random subsamples." *PLOS Computational Biology*, 18 (9), e1010451 (2022).
- 9. ★ K. H. Wapman, S. Zhang, Aaron Clauset, D. B. Larremore. "Quantifying hierarchy and dynamics in U.S. Faculty Hiring and Retention." *Nature* 610, 120-127 (2022).
- 10. A. C. Morgan, ★ N. LaBerge, **D. B. Larremore**, M. Galesic, J. E. Brand, A. Clauset. "Socioeconomic Roots of Academic Faculty." *Nature Human Behaviour*, (2022).
- ★ K. M. Bubar*, ★ C. E. Middleton*, K. K. Bjorkman, R. Parker, D. B. Larremore. "SARS-CoV-2 Transmission and Impacts of Unvaccinated-Only Screening in Populations of Mixed Vaccination Status." Nature Communications, 13, 2777 (2022).
- 12. C. A. Lopez, C. H. Cunningham, S. Pugh, K. Brandt, U. P. Vanna, M. J. Delacruz, Q. Guerra, S. J. Goldstein, Y. J. Hou, M. Gearhart, C. Wiethorn, C. Pope, C. Amditis, K. Pruitt, C. Newberry-Dillon, J. Schmitz, L. Premkumar, A. A. Adimora, M. Emch, R. Boyce, A. E. Aiello, B. K. Fosdick, **D. B. Larremore**, A. M. de Silva, J. J. Juliano, A. J. Markmann. "Ethnoracial disparities in SARS-CoV-2 seroprevalence in a large cohort of individuals in central North Carolina from April to December 2020." "MSphere, e00841-21, (2022).
- 13. E. Lee, A. Clauset, **D. B. Larremore.** "The Dynamics of Faculty Hiring Networks." *EPJ Data Science*, 10, 48, (2021)
- K. K. Bjorkman, T. K. Saldi, E. Lasda, L. C. Bauer, J. Kovarik, P. K. Gonzales, M. R. Fink, K. L. Tat, C. R. Hager, J. C. Davis, C. D. Ozeroff, G. R. Brisson, D. B. Larremore, L. A. Leinwand, M. B. McQueen, R. Parker. "Higher viral load drives infrequent SARS-CoV-2 transmission between asymptomatic residence hall roommates." *Journal of Infectious Diseases*, jiab386, (2021).
- 15. E. Hobson, M. Silk, N. Fefferman, **D. B. Larremore**, P. Rombach, S. Shai, N. Pinter-Wollman. "A guide to choosing and implementing reference models for social network analysis." *Biological Reviews*, (2021)
- 16. **D. B. Larremore**, D. Toomre, R. Parker. "Modeling the effectiveness of olfactory testing to limit SARS-CoV-2 transmission." *Nature Communications*, 12, 3664 (2021).
- 17. M. I. Nisar, N. Ansari, F. Khalid, M. Amin, H. Shahbaz, A. Hotwani, N. Rehman, S. Pugh, U. Mehmood, A. Rizvi, A. Memon, Z. Ahmed, A. Ahmed, J. Iqbal, A. F. Saleem, U. B. Aamir, **D. B. Larremore**, B. K. Fosdick,

- F. Jehan. "Serial population-based serosurvey for COVID-19 in two neighborhoods of Karachi, Pakistan." *International Journal of Infectious Diseases* (2021).
- 18. **D. B. Larremore**, B. K. Fosdick, ★ K. M. Bubar, S. Zhang, S. M. Kissler, C. J. E. Metcalf, C. O. Buckee, Y. H. Grad. "Estimating SARS-CoV-2 seroprevalence and epidemiological parameters with uncertainty from serological surveys." *eLife* 10:e64206 (2021).
- 19. M. Kawakatsu*, P. S. Chodrow*, N. Eikmeier*, **D. B. Larremore**. "Emergence of hierarchy in networked endorsement dynamics." *Proceedings of the National Academy of Sciences, USA* 118 (16) e2015188118 (2021).
- 20. A. C. Morgan, S. F. Way, M. J. D. Hoefer, **D. B. Larremor**e, M. Galesic, A. Clauset. "The unequal impact of parenthood in academia." *Science Advances*, 7 (9), eabd1996 (2021).
- 21. ★ K. M. Bubar, S. M. Kissler, M. Lipsitch, S. Cobey, Y. H. Grad, **D. B. Larremore**. "Model-informed COVID-19 vaccine prioritization strategies by age and serostatus" *Science*, 371 (6532), 916-921 (2021).
- 22. K. R. Sabourin, J. Schultz, J. Romero, M. M. Lamb, **D. B. Larremore**, T. E. Morrison, A. Frazer-Abel, S. Zimmer, R. M. Kedl, T. Jaenisch, R. Rochford. "Risk Factors of SARS-CoV-2 Antibodies in Arapahoe County First Responders the COVID-19 Arapahoe SErosurveillance Study (CASES) Project" *Journal of Occupational and Environmental Medicine* 63 (3), 191-198 (2021).
- 23. **D. B. Larremore**, B. Wilder, E. Lester, S. Shehata, J. M. Burke, J. A. Hay, M. Tambe, M. J. Mina, R. Parker. "Test sensitivity is secondary to frequency and turnaround time for COVID-19 screening." *Science Advances*, eabd5393 (2020).
- 24. K. Finlinson, W. L. Shew, **D. B. Larremore**, J. G. Restrepo. Control of excitable systems is optimal near criticality. *Physical Review Research* 2, 033450 (2020).
- 25. A. Patania, B. McShane, B. Falk, **D. B. Larremore**, E. McDonnell Feit, E. Bruch, F. Feinberg, J. Helveston, M. Small, M. Braun, N. Fefferman. "Choices In Networks: A Research Framework." *Marketing Letters* (2020).
- 26. ★ T.-C. Yen, **D. B. Larremore**. Community Detection in Bipartite Networks with Stochastic Blockmodels. *Physical Review E*, 102, 032309 (2020).
- S. M. Kissler*, N. Kishore*, M. Prabhu*, D. Goffman*, Y. Beilin*, R. Landau, C. Gyamfi-Bannerman, B. T. Bateman, D. Katz, J. Gal, A. Bianco, J. Stone, **D. B. Larremore**, C. O. Buckee, Y. H. Grad. "Reductions in commuting mobility predict geographic differences in SARS-CoV-2 prevalence in New York City." *Nature Communications*, 11, 4674 (2020).
- 28. **D. B. Larremore**, ★ K. M. Bubar, Y. H. Grad. "Implications of test characteristics and population seroprevalence on 'immune passport' strategies." *Clinical Infectious Diseases*, ciaa1019, (2020).
- 29. N. Obeng-Adjei*, **D. B. Larremore***, L. Turner, A. Ongoiba, S. Li, S. Doumbo, T. B. Yazew, O. K. Doumbo, K. Kayentao, L. H. Miller, B. Traore, S. K. Pierce, C. O. Buckee, T. Lavstsen, P. D. Crompton, T. M. Tran, "Longitudinal analysis of naturally acquired antibodies to PfEMP1 CIDR domain variants and their association with malaria protection." *JCI Insight*, 5(12) e137262 (2020).
- 30. † A. Berdahl*, C. Brelsford*, C. De Bacco*, M. Dumas*, V. Ferdinand*, J. A. Grochow*, L. Hébert-Dufresne*, Y. Kallus*, C. P. Kempes*, A. Kolchinsky*, **D. B. Larremore***, E. Libby*, E. A. Power*, C. A. Stern*, B. D. Tracey*. "Dynamics of beneficial epidemics." *Nature Scientific Reports* 9 (15093), (2019).
- 31. ★ K. H. Wapman, **D. B. Larremore**. "webweb: a tool for creating, displaying, and sharing interactive network visualizations on the web." *Journal of Open Source Software* 4(40), 1458 (2019).
- 32. S. F. Way, A. C. Morgan, **D. B. Larremore***, A. Clauset*, "Productivity, prominence, and the effects of academic environment." *Proceedings of the National Academy of Sciences, USA* 116(18) (2019).
- 33. **D. B. Larremore**. "Bayes-optimal estimation of overlap between populations of fixed size." *PLOS Computational Biology* 15(3): e1006898. (2019).
- 34. V. Agrawal, A. B. Cowley, W. L. Shew, **D. B. Larremore**, J. G. Restrepo, Q. Alfaori. "Robust information capacity requires strong and balanced excitatory and inhibitory synapses." *Chaos* 28 103115 (2018).
- 35. C. De Bacco*, **D. B. Larremore***, C. Moore. "A physical model for efficient ranking in networks." *Science Advances* 4(7) eaar8260 (2018).
- 36. † Bailey K. Fosdick*, **D. B. Larremore***, Joel Nishimura*, Johan Ugander*. "Configuring random graph models with fixed degree sequences." *SIAM Review, 60* (2) 315-355. (2018).
- 37. S. F. Way, A. C. Morgan, A. Clauset*, **D. B. Larremore***. "The misleading narrative of the canonical faculty productivity trajectory." *Proceedings of the National Academy of Sciences, USA* **114** (44) E9216-E9223 (2017). [Also accepted at *ICWSM* 2017, social science track (non-archival).]

- 38. L. Peel*, **D. B. Larremore***, A. Clauset. "The ground truth about metadata and community detection in networks." *Science Advances* **3**(5) e1602548 (2017).
- 39. C. De Bacco, E. A. Power, **D. B. Larremore**, C. Moore. "Community detection, link prediction, and layer interdependence in multilayer networks." *Physical Review E* **95** 042317 (2017).
- 40. **D. B. Larremore**, S. A. Sundararaman, W. Liu, W. R. Proto, A. Clauset, D. E. Loy, S. Speede, L. J. Plenderleith, P. M. Sharp, B. H. Hahn, J. C. Rayner*, and C. O. Buckee*. "Ape parasite origins of human malaria virulence genes." *Nature Communications*, **6**, 8368 (2015).
- 41. A. Clauset, S. Arbesman, **D. B. Larremore**, "Systematic inequality and hierarchy in faculty hiring networks." *Science Advances*, **1**, e1400005 (2015).
- 42. A. K. Bei, A. Diouf, K. Miura, **D. B. Larremore**, U. Ribacke, G. Tullo, E. L. Moss, D. E. Neafsey, R. F. Daniels, A. E. Zeituni, I. Nosamiefan, S. K. Volkman, A. D. Ahouidi, D. Ndiaye, T. Dieye, S. Mboup, C. O. Buckee, C. Long, and D. F. Wirth., "Immune characterization of *P. falciparum* parasites with a shared genetic signature in a region of decreasing transmission." *Infection and Immunity*, **83**(1), 276 (2014).
- 43. **D. B. Larremore,** A. Clauset, and A. Z. Jacobs, "Efficiently inferring community structure in bipartite networks." *Physical Review E*, **90**(1), 012805 (2014).
- 44. **D. B. Larremore**, W. L. Shew, E. Ott, F. Sorrentino, and J. G. Restrepo, "Inhibition causes ceaseless dynamics in networks of excitable nodes" *Physical Review Letters*, **112**, 138103 (2014).
- 45. **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).
- 46. **D. B. Larremore*** and D. Taylor*, "Social Climber attachment in forming networks produces phase transition in a measure of connectivity." *Physical Review E* **86** 031140 (2012).
- 47. **D. B. Larremore**, M. Y. Carpenter, E. Ott, and J. G. Restrepo, "Statistical properties of avalanches in networks." *Physical Review E* **85**, 066131 (2012).
- 48. **D. B. Larremore**, W. L. Shew, E. Ott, and J. G. Restrepo, "Effects of network topology, transmission delays, and refractoriness on the response of coupled excitable systems to a stochastic stimulus." *Chaos* **21**, 025117 (2011).
- 49. **D. B. Larremore**, W. L. Shew, J. G. Restrepo, "Predicting criticality and dynamic range in complex networks: effects of topology." *Physical Review Letters* **106**, 058101 (2011).

Peer-Reviewed Conference Proceedings

50. S. F. Way, **D. B. Larremore**, A. Clauset. "Gender, Productivity, and Prestige in Computer Science Faculty Hiring Networks." *Proceedings of the 2016 World Wide Web Conference (WWW)* 1169-1179, (2016). 11 pages, 16% acceptance rate.

Peer-Reviewed Workshop Papers

51. R. M. Layer, B. K. Fosdick, M. Bradshaw, **D. B. Larremore**, P. Doherty. "Case Study: Using Facebook Data to Monitor Adherence to Stay-at-home Orders in Colorado and Utah." *ACM SIGKDD Conference on Knowledge Discovery and Data Mining, Workshop on Humanitarian Data Mapping*, (2020).

Peer-Reviewed Book Chapters

- 52. L. M. Childs, **D. B. Larremore**, "Network models for malaria: antigens, dynamics, and evolution over space and time." *Systems Medicine: Integrative Qualitative and Computational Approaches.* Elsevier (2020).
- 53. **D. B. Larremore**, W. L. Shew, J. G. Restrepo, "Critical Dynamics in Complex Networks" *Criticality in Neural Systems*. Ed. Dietmar Plenz & Ernst Niebur. NY: Wiley, 365-392, (2014).

Peer-Reviewed Perspectives and Essays

54. S. Cobey, **D. B. Larremore**, Y. H. Grad, M. Lipsitch. "Concerns about SARS-CoV-2 evolution should not hold back efforts to expand vaccination." *Nature Reviews Immunology* (2021).

- 55. M. J. Mina, R. Parker, **D. B. Larremore**. "Rethinking Covid-19 Test Sensitivity A Strategy for Containment." *The New England Journal of Medicine* (2020).
- A. Clauset, D. B. Larremore, R. Sinatra. "Data-driven predictions in the science of science." Science 355, 477-480 (2017).

Articles Currently Under Peer Review or Revision

- 57. A. K. Bei, **D. B. Larremore**, K. Miura, A. Diouf, N. K. Baro, R. F. Daniels, A. Griggs, E. L. Moss, D. E. Neafsey, A. B. Deme, M. Sy, S. Schaffner, A. D. Ahouidi, D. Ndiaye, T. Dieye, S. Mboup, C. O. Buckee, S. K. Volkman, C. A. Long, D. F. Wirth, "*Plasmodium falciparum* population genetic complexity influences expression dynamics and immune recognition among highly related genotypic clusters." (2021).
- 58. Q. Yang, N. R. Meyerson, C. L. Paige, J. H. Morrison, S. K. Clark, W. T. Fattor, C. J. Decker, H. R. Steiner, E. Lian, **D. B. Larremore**, R. Perera, E. M. Poeschla, R. Parker, R. D. Dowell, S. L. Sawyer. "Human mRNA in saliva can correctly identify individuals harboring infection." (2023).
- I. Nisar, M. Amin, N. Ansari, F. Khalid, N. Rehman, A. Hotwani, A. Memon, U. Mehmood, A. F. Saleem, J. Iqbal; D. B. Larremore, B. K. Fosdick, F. Jehan. "Serial Population-Based Serosurveys For COVID-19 In District East of Karachi, Pakistan." (2022)

Other Publications and Preprints_____

- 60. ★ E. K. Johnson, R. Kahn, Y. H. Grad, M. Lipsitch, **D. B. Larremore**. "Test negative designs with uncertainty, sensitivity, and specificity." (2021).
- 61. † A. Berdahl*, U. Bhat*, V. Ferdinand*, J. Garland*, K. Ghazi-Zahedi*, J. Grana*, J. A.Grochow*, E. Hobson*, Y. Kallus*, C. P. Kempes*, A. Kolchinsky*, **D. B. Larremore***, E. Libby*, E. A. Power*, B. D. Tracey*. "On the records." (2017) Available via arxiv.org.
- 62. D. E. Geer Jr. and **D. B. Larremore**, "Progress is Infectious." *IEEE Security & Privacy* **10**(6) p. 94-95 (2012).

Funding

Assessing Bias and Idiosyncrasies in Elite Scientific Peer Review

2022-2025

Co-PI. SES-2219609. National Science Foundation, Social, Behavioral and Economic Sciences \$501,890 to University of Colorado Boulder

With PI Aaron Clauset (University of Colorado Boulder)

Alan T. Waterman Award

2022-2027

PI. SMA-2226343. National Science Foundation.

\$1,000,000 to Larremore.

Model-informed vaccine prioritization strategies

2020-2022

PI. 3U24GM132013-02S2, Models of Infectious Disease Agent Study (MIDAS)

National Institute of General Medical Science, National Institutes of Health

MIDAS Coordination Center (MIDASNI2020-2)

\$140,000 to Larremore.

Integrated Data Science (Int dS): Teams for Advancing Bioscience Discovery 2020-2025

Core Faculty. National Science Foundation, Research Traineeship Program

\$0 to Larremore. (\$3,000,000 to University of Colorado Boulder)

This is a training grant and its funds support the graduate training program, not individual PIs.

With PI Tom Cech and Co-PIs Manuel Lladser, Aaron Clauset, Robin Dowell, and Eric Vance (University of Colorado Boulder)

Causal, Statistical and Mathematical Modeling with Serologic Data

2020-2023

Co-PI (via Subcontract to University of Colorado Boulder)

U01-CA261277, National Cancer Institute, National Institutes of Health

\$179,565 to Larremore. (\$4,584,395 total funded.)

With PIs Marc Lipsitch and Michael Mina (Harvard T. H. Chan School of Public Health)

Mapping the Structure and Dynamics of the Scientific Ecosystem

2019-2023

PI. 19RT0301. Air Force Office of Scientific Research, Minerva

\$2,426,815 to University of Colorado Boulder. (\$2,565,505 total funded.)

With Co-I Aaron Clauset (University of Colorado Boulder), Co-I Mirta Galesic (Santa Fe Institute), and Co-I Jennifer Dunne (Santa Fe Institute)

Academic hiring networks and scientific productivity across disciplines

2016-2020

PI. SMA-1633747. National Science Foundation, Social, Behavioral and Economic Sciences

\$517,058 to University of Colorado Boulder. (\$550,000 total funded.)

With Co-PI Mirta Galesic (Santa Fe Institute) and PI Aaron Clauset (University of Colorado Boulder).

REU Supplement, 2018, \$5000 to Larremore

REU Supplement, 2019, \$6000 to Larremore

Models of Infections Disease Agents Study Center for Communicable Disease Dynamics 2015-2019

Consultant. U54-GM088558. National Institutes of Health, National Institute of General Medical Sciences, \$11,279,771 total funded.

With PI Marc Lipsitch (Harvard T.H. Chan School of Public Health).

Network Assortativity

2014

Proposer. American Mathematical Society Mathematical Research Communities, collaboration grant \$2,250

With co-proposers Bailey Fosdick (Colorado State University), Joel Nishimura (Arizona State University), and Johan Ugander (Microsoft Research)

Industry Experience and Advising

Darwin BioSciencesBoulder, COScientific Advisory Board2020 -

Gambro Blood Component Technologies

Lakewood, CO 2005 - 2007

Research and Development Engineer Engineering Intern II Engineering Intern I

Summer 2005 Summer 2004

Invited Talks

• "Data Dreams: U.S. faculty hiring and retention"

Panelist, NSF Data & Analytics Symposium, National Science Foundation

February 27, 2023

• "Quantifying hierarchy and dynamics in U.S. faculty hiring and retention"

Res. on Alg'ms & Incentives in Networks (RAIN) Seminar, Stanford Univ., Stanford, CA February 8, 2023

• "Quantifying hierarchy and dynamics in U.S. faculty hiring and retention"

Science & Math Ed. Res. Collab. (SMERC) Seminar, Rochester Inst. Tech., Rochester, NY January 30, 2023

- "Trends in US faculty hiring & retention from 10 years of data: a study of prestige, diversity & inequality" SFI Year In Review, Santa Fe Institute, Santa Fe, NM

 December 15, 2022
- "Trends in US faculty hiring & retention from 10 years of data: a study of prestige, diversity & inequality" Information Science Colloquium, *University of Colorado Boulder*, Boulder, CO

 November 30, 2022
- "Trends in US faculty hiring & retention from 10 years of data: a study of prestige, diversity & inequality"
 The Long View: Academic Big Data, North Carolina State University

 November 28, 2022
- "Estimating the Mitigation Potential of Screening Programs for Infectious Diseases"

Keynote, American Statistical Association Fall Meeting CO/WY Chapter, Denver, CO "Estimating the Mitigation Potential of Screening Programs for Infectious Diseases"	November 11, 2022
Department of Biological Sciences Seminar, <i>Purdue University</i> , West Lafayette, IN "Quantifying hierarchy and dynamics in U.S. faculty hiring and retention"	November 2, 2022
Research Webinar, Academic Analytics Research Center	October 21, 2022
• "Trends in US faculty hiring & retention from 10 years of data: a study of prestige, o	
2022 Waterman Lecture, National Science Foundation	September 28, 2022
"Quantifying hierarchy & dynamics in U.S. faculty hiring and retention"	
Computer Science Colloquium, University of Colorado Boulder, Boulder, CO	September 22, 2022
• "Estimating the Mitigation Potential of Screening Programs for Infectious Diseases'	
Applied Math Colloquium, University of Colorado Boulder, Boulder, CO	September 2, 2022
• "Estimating the Mitigation Potential of Screening Programs for Infectious Diseases'	,
Contagion on Complex Social Systems 2022	August 11, 2022
"Quantifying hierarchy & dynamics in U.S. faculty hiring and retention"	
Science of Science Summer School, Syracuse University	August 8, 2022
"Optimal control of excitable systems near criticality"	0 ,
Physical Review Journal Club	December 7, 2021
"Mathematical Models for Disease Mitigation via Testing"	
Mathematical Biology and Applied Dynamics Seminar, Ohio State University	October 28, 2021
"Vaccination Strategies Prioritization, Dose Sparing, and Decision Making Under Under University	
Society for Mathematical Biology, COVID-19 Vaccination Minisymposium	
	June 16, 2021
"Modeling COVID-19 Testing Strategies: Mitigation vs Information"	1 0 0004
Laboratory Medicine Research Conference, Yale School of Medicine	June 2, 2021
"Vaccination Strategies Prioritization, Dose Sparing, and Decision Making Under	
Computing Advisory Board, Dept. of Computer Science, Univ. Colorado Boulder	April 15, 2021
"Vaccination Strategies Prioritization, Dose Sparing, and Decision Making Under	
Colloquium, Santa Fe Institute	March 17, 2021
Colloquium, Santa Fe Institute • "Model-informed COVID-19 vaccine prioritization and dose-sparing strategies by ag	
	ge and serostatus"
"Model-informed COVID-19 vaccine prioritization and dose-sparing strategies by ag	ge and serostatus" e March 3, 2021
 "Model-informed COVID-19 vaccine prioritization and dose-sparing strategies by ag Div. of Infectious Diseases Grand Rounds, Univ. of Colorado Anschutz Sch. Medicine 	ge and serostatus" e March 3, 2021
 "Model-informed COVID-19 vaccine prioritization and dose-sparing strategies by ag Div. of Infectious Diseases Grand Rounds, Univ. of Colorado Anschutz Sch. Medicine "Model-informed COVID-19 Vaccine Prioritization Strategies by Age & Serostatus" Applied Mathematics Dynamics Seminar, University of Colorado Boulder 	ge and serostatus" March 3, 2021
 "Model-informed COVID-19 vaccine prioritization and dose-sparing strategies by ag Div. of Infectious Diseases Grand Rounds, Univ. of Colorado Anschutz Sch. Medicine "Model-informed COVID-19 Vaccine Prioritization Strategies by Age & Serostatus" Applied Mathematics Dynamics Seminar, University of Colorado Boulder "COVID-19 Testing Strategies: Mitigation vs Information" 	ge and serostatus" March 3, 2021 January 28, 2021
 "Model-informed COVID-19 vaccine prioritization and dose-sparing strategies by ag Div. of Infectious Diseases Grand Rounds, Univ. of Colorado Anschutz Sch. Medicine "Model-informed COVID-19 Vaccine Prioritization Strategies by Age & Serostatus" Applied Mathematics Dynamics Seminar, University of Colorado Boulder "COVID-19 Testing Strategies: Mitigation vs Information" University of British Columbia - BC COVID-19 Modeling Group 	ge and serostatus" March 3, 2021
 "Model-informed COVID-19 vaccine prioritization and dose-sparing strategies by ag Div. of Infectious Diseases Grand Rounds, Univ. of Colorado Anschutz Sch. Medicine "Model-informed COVID-19 Vaccine Prioritization Strategies by Age & Serostatus" Applied Mathematics Dynamics Seminar, University of Colorado Boulder "COVID-19 Testing Strategies: Mitigation vs Information" University of British Columbia - BC COVID-19 Modeling Group "COVID-19 Testing Strategies: Mitigation vs Information" 	ge and serostatus" March 3, 2021 January 28, 2021 December 16, 2020
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• "Explaining Gender Differences in Academics' Career Trajectories"	
Webinar, Computational Social Science Society of the Americas	May 6, 2020
"How do Infectious Disease Models Work?"	111ay 0, 2020
Collabeeration, BioFrontiers Institute, <i>University of Colorado Boulder</i> , Boulder, CO	April 1, 2020
"Complex networks and <i>P. falciparum</i> : from evolution to epidemiology"	_F ,
Computational BioSciences Seminar, University of Colorado Medical School, Aurora, CO.	Mar 9, 2020
"Complex networks, math, and malaria: from evolution to epidemiology"	,
Applied Math Colloquium, University of Colorado Boulder, Boulder, CO	January 17, 2020
"Complex networks and <i>P. falciparum</i> : from evolution to epidemiology"	<i>y</i> ,
Applied Math & Statistics Colloquium, Colorado School of Mines, Golden, CO.	Nov 8, 2019
Panelist: "Development of Trustworthy AI"	,
Mozilla Foundation & CU Data Science Team, Boulder, CO	October 8, 2019
• "Complex networks and P. falciparum: from evolution to epidemiology"	•
Infectious Disease Epidemiology Seminar Series, Harvard Sch. Pub. Health, Boston, MA.	May 9, 2019
"Which community detection method is best?"	, ,
Analysis and Interpretation of Connectomes, HHMI Janelia, Ashburn, VA.	May 22, 2018
"A physical model for efficient ranking in networks."	•
Applied Math Seminar, UNC Chapel Hill, Chapel Hill, NC.	Apr 11, 2018
"A physical model for efficient ranking in networks."	•
Duke Network Analysis Center seminar, Duke University, Durham, NC.	Apr 10, 2018
• Paper Unwind: "The misleading narrative of the canonical faculty productivity traject	tory"
CompleNet, Boston, MA	March 4, 2018
• "Gender, prestige, and productivity in academic hiring networks and career trajectoric	es."
Annenberg School of Communication, University of Pennsylvania, Philadelphia, PA.	Feb 13, 2018
"A physical model for efficient ranking in networks"	
Special Session: Network Science,	
Joint Mathematics Meeting, San Diego, CA	Jan 12, 2018
 "Estimating the entropy of activity in excitable networks" 	
Special Session: Emergent Phenomena in Discrete Models,	
Joint Mathematics Meeting, San Diego, CA	Jan 12, 2018
"The ground truth about metadata and community detection in networks"	
Special Session: Theory, Practice, and Applications of Graph Clustering,	
Joint Mathematics Meeting, San Diego, CA	Jan 11, 2018
• "Large-scale structures in networks: hidden communities and latent hierarchies."	
Network Science School, NetSciX, Hangzhou, China.	Jan 5, 2018
 "The assembly of prestige and status in networks." 	
Omidyar Network Applied Complexity Meeting, Santa Fe Institute, Santa Fe, NM.	Dec 12, 2017
"A physical model for efficient ranking in networks."	
Physics Colloquium, U Arkansas, Fayetteville.	Nov 17, 2017
"A physical model for efficient ranking in networks."	
Center for the Study of Complex Systems Seminar, U Michigan.	Nov 9, 2017
• "Gender, prestige, and productivity in academic hiring networks and career trajectoric	
NSF-FAST: Machine Learning for Discovery Science, Yerevan, Armenia.	Oct 20, 2017
• "The dynamics of beneficial epidemics."	1 00 0047
Dynamics of/on Complex Networks Satellite Symp., NetSci 2017, Indianapolis, IN	June 20, 2017
• "Gender, prestige, and productivity in academic hiring networks and career trajectoric	
Workshop on Gendered Creative Teams, Central European Univ., Budapest, Hungary	May 25, 2017
• "Gender, prestige, and productivity in academic hiring networks and career trajectoric	
Seminar, Berkeley Institute for Data Science, <i>UC Berkeley</i> , Berkeley, CA	Mar 17, 2017
"The assembly of prestige and status in networks." Influence Complexity and Networks Dielec Create Austin TV	Eab 22 2017
Influence, Complexity and Networks, <i>Dialog Group</i> , Austin, TX "The ground truth about metadate and community detection in networks"	Feb 23, 2017
"The ground truth about metadata and community detection in networks." Networks Seminar University of Houston, TV	Oct 29, 2016
Networks Seminar, University of Houston, Houston, TX "Gender prestice and productivity in faculty hiring networks"	Oct 28, 2016
"Gender, prestige, and productivity in faculty hiring networks."	

Quantifying Success Satellite Symposium, <i>NetSci 2016</i> , Seoul, Korea "Networks and the evolution of malaria's virulence in humans and apes."	June 1, 2016
Network Frontiers Workshop, <i>Northwestern Univ. Inst. of Complex Systems</i> , Evanston, IL • "Networks in two acts: faculty hiring hierarchies and malaria's evolving virulence."	Dec 7, 2015
Arts & Sciences Seminar, <i>Clarkson University</i> , Potsdam, NY • "Networks and the evolution of malaria's virulence in humans and apes."	Nov 13, 2015
Mathematics Colloquium, <i>Clarkson University</i> , Potsdam, NY • "Networks, inference, and the evolution of malaria's virulence in humans and apes."	Nov 12, 2015
Mechanical Engr. Seminar, <i>University of New Mexico</i> , Albuquerque, NM • "A complex networks approach to malaria's genetic recombination dynamics."	Nov 6, 2015
Minisymposium, SIAM Conf. on Applications of Dynamical Systems (DS15), Snowbird, UT • "Using networks to analyze rapid genetic recombination in malaria parasites."	May 15, 2015
Dynamics & Complex Systems Seminar, <i>Applied Math, University of Colorado Boulder</i> • "Complex networks, rapid genetic recombination, and tricky malaria antigens."	April 9, 2015
Mathematics Colloquium, Western New England University • "Efficiently inferring community structure in bipartite networks."	Nov 7, 2014
Seminar at Network Science and Graph Algorithms Program, <i>ICERM, Brown University</i> • "Ceaseless critical dynamics in excitable networks with inhibitory nodes." Information, Self-Organizing Dynamics, and Synchronization on Complex Networks,	Mar 4, 2014
(ISODS) Satellite Symposium, <i>NetSci 2014</i> , Berkeley, CA	June 3, 2014
"Critical dynamics in balanced excitable networks: neuronal avalanches, dynamic range	•
Dynamics & Complex Systems Seminar, Applied Math, University of Colorado Boulder	Feb 28, 2013
"Critical dynamics in balanced excitable networks: neuronal avalanches, dynamic range	ge, and ceaseless activity."
Seminar, Center for Complex Network Research, Northeastern University	Feb 5, 2013
• "Predicting criticality and dynamic range in complex networks: effects of topology."	
Minisymposium, SIAM Conf. on Applications of Dynamical Systems (DS11), Snowbird, UT	May 23, 2011

Contributed or Submitted Talks and Presentations_____

NIH SeroNet Investigators Meeting	March 24, 2022
• Int'l Conf. on Computational Social Science (IC2S2), University of Amsterdam	July 19, 2019
SIAM Network Science (SIAM NS19), Snowbird, UT	May 23, 2019
BioFrontiers Institute Advisory Board, Boulder, CO	April 17, 2019
ASTMH Annual Meeting, poster, New Orleans, LA	October 31, 2018
• d3.js Boulder Meetup, Boulder, CO	August 30, 2018
• Int'l Conf. on Computational Social Science (IC2S2), Northwestern University	July 14, 2018
• NetSci, Paris, France	June 15, 2018
• Genetic Epidemiology of Malaria – poster [best poster award], Sanger Institute, UK	June 13, 2018
• CompleNet, Network Science Institute at Northeastern University, Boston, MA.	March 5, 2018
• Dynamical Systems Seminar, CU Boulder, Boulder, CO.	Nov 2, 2017
StatOptML Seminar, CU Boulder, Boulder, CO.	Sept 12, 2017
• NetSci, Indianapolis, IN.	June 21, 2017
• Complex Systems Summer School, Santa Fe Institute, Santa Fe, NM.	June 14, 2017
• YConf, YCombinator Research, San Francisco, CA.	June 10, 2017
• Santa Fe Science Writers' Workshop, Santa Fe Institute, Santa Fe, NM.	May 2, 2017
• Outside In seminar, Santa Fe Institute, Santa Fe, NM.	October 19, 2016
Conference on Complex Systems (CCS), Amsterdam, NL	September 22, 2016
• SIAM Network Science (SIAM NS16), Boston, MA	July 15, 2016
• Int'l Conf. on Computational Social Science (IC2S2), Northwestern University	June 24, 2016
• NetSci, Seoul, Korea	June 2, 2016
• Int'l Conf. on the Science of Science, Library of Congress, Washington D.C.	April 7, 2016
• Los Alamos Rotary Club, Los Alamos, NM	March 15, 2016
• NetSci, Zaragoza, Spain	June 3, 2015

 Freeman Symposium, Harvard T. H. Chan School of Public Health Boston Area Parasitology Symposium (BAPS), Boston, MA Defeating Malaria: from genes to the globe – poster Harvard School of Public Health ASTMH – poster, New Orleans, LA Harvard Channing Network Science Seminar, Boston, MA. NetSci – poster [best poster award], Berkeley, CA BioMalPar/EVIMalar, EMBL, Heidelberg, Germany Network Frontiers Workshop, NICO, Northwestern University ASTMH – poster, Washington D.C. Oxford Tropical Network, KEMRI, Kilifi, Oxford-Wellcome Trust, Kenya Networks Journal Club, OCLAM, Oxford University, UK Dynamics Days – poster, University of Colorado Boulder Freeman Symposium, Harvard School of Public Health Ph.D. Dissertation Defense, University of Colorado Boulder Front Range Applied Mathematics Student Conference, Univ. of Colorado Denver Dynamics Days – poster, University of Maryland Comprehensive Examination, University of Colorado Boulder Front Range Applied Mathematics Student Conference, Univ. of Colorado Denver Dynamics Days 2011, Duke University Complex and Dynamical Systems Seminar, University of Colorado Boulder Nonlinear Dynamics of Networks (NTD10) – poster, University of Maryland Complex and Dynamical Systems Seminar University Front Range Applied Mathematics Student Conference, Univ. of Colorado Denver Dynamics Days 2010, poster Nethwestern University 	April 10, 2015 December 8, 2014 December 2, 2014 November 4, 2014 October 31, 2014 June 4, 2014 May 13, 2014 December 6, 2013 November 15, 2013 October 1, 2013 March 8, 2013 January 3, 2013 December 14, 2012 April 5, 2012 March 3, 2012 January 3, 2012 September 27, 2011 March 5, 2011 January 6, 2011 October 20, 2010 April 4, 2010 April 1, 2010 March 6, 2010 January 3, 2010
• Dynamics Days 2010 – poster, Northwestern University	January 3, 2010
Supported Workshops	
 Model-Based Research and Reproducibility Workshop, Center for Open Science Network Null Models Working Group, NIMBIOS Decision Processes in Networks, Triennial Choice Symposium The Dynamics of Discovery: Is Science Slowing and Can We Speed It Up? Affiliations, Accreditations_	Feb 4-5, 2020 Oct 23-26, 2019 May 29-June 2, 2019 March 16-17, 2018
Anniauons, Accreditations	
 Models of Infectious Disease Agent Study Network – Member Network Science Society – Member American Mathematical Society – Member American Society of Tropical Medicine and Hygiene – Member Society of Industrial and Applied Mathematics – Member NIH "Protecting Human Research Participants" – Certification Physical Review Letters – "Inhibition causes ceaseless" – Editors' Suggestion National Postdoctoral Association – Member Arts and Sciences Dean's Teaching Assistant Fellowship Colorado – Lead Teaching Assistant, Dept. of Applied Mathematics 	2020 - present 2014 - present 2014 - present 2013 - present 2008 - present 2016 - present April, 2014 2012 - 2015 Spring 2010 2009 - 2010
Advising	
PostdocsDr. Katherine Wootton, Computer ScienceDr. Eun Lee, Computer Science	2021 - 2022 2020 - 2022

PhD Students

 University of Colorado Boulder CSCI 2897 (Calculating Biological Quantities) CSCI 2897 (Calculating Biological Quantities) 	Boulder, CO, USA Fall 2022 Fall 2021
ching	
Kat Wicks, High School Student, Santa Fe Institute	2015 - 2016
William McKinnon, High School Student, Santa Fe Institute	2016
High School Students	
Maya Banks, Carleton College via the Santa Fe Institute	2017
Phuc Nguyen, Macalester College via the Santa Fe Institute	2017
Robert Steele, University of Colorado Boulder Plant Marie Collegia de Control de C	2018
National Science Foundation REU	2010
Katie Younglove, University of Colorado Boulder	2018 - 2019
Suyog Soti, University of Colorado Boulder Suyog Soti, University of Colorado Boulder	2018 - 2019
Thesis: "Using Machine Learning to Identify Files on Disk that Contain Sensit	
Mark Wilmes, Computer Science The Comp	2019
National Science Foundation REU	
Thesis: "Understanding SpringRank through Random Utility Models, Identifia	ibility, and Online Updates"
Aparajithan Venkateswaran, University of Colorado Boulder	2018 - 2020
Suchita Lulla, University of Colorado Boulder	2018 - 2021
Aloha Churchill, University of Colorado Boulder	2020 - 2021
Undergraduate Students	
(Co-adv: Juan G. Restrepo, National Science Foundation, Mentoring Through	Critical Transition Points)
Marshall Y. Carpenter, M.S. Applied Math, Colorado Control of the Contro	2012
Thesis: "Matchbox: Adaptive Comparison Graphs for Restricted Tournaments	
Aaron Aaeng, M.S. Computer Science, Colorado The Col	2020
Upasana Dutta, M.S. Computer Science, Colorado	2022
Masters Students	
Michael Smallegan	2018
Dieu My Nguyen	2018
Phillip Benson	2019
Sierra Jech	2019
Kate Bubar	2019
• Elise Tate	2019
Sharon Wu	2020
Casey Middleton	2021
PhD Rotation Students (IQ Biology) • Vanessa Maybruck	2022
Thesis: "Measuring image resolution in super-resoultion microscopy and Baye and overlap and vaccine effectiveness"	sian estimation or population s
• Dr. Erik Johnson, Applied Mathematics Thesis: "Meanwring image resolution in super resolution microscopy and Page	
Casey Middleton, Computer Science Dr. Frik Johnson, Applied Mathematics	2021 - present 2019 - 2021
	•
Katherine Spoon, Computer Science (co-adv: Aaron Clauset)	2020 - present
Kate Bubar, Computer Science	2020 - present
Ian van Buskirk, Computer Science (co-adv: Aaron Clauset)	2019 - present
 K. Hunter Wapman, Computer Science Nicholas LaBerge, Computer Science (co-adv: Aaron Clauset) 	2019 - present 2019 - present

• [new course] CSCI 2897 (Calculating Biological Quantities)	Spring 2021
CSCI 5352 (Network Analysis and Modeling)	Fall 2020
CSCI 5352 (Network Analysis and Modeling)	Fall 2019
CSCI 4802/5802 (Data Science Team)	Fall 2019
CSCI 4802/5802 (Data Science Team)	Spring 2019
CSCI 5352 (Network Analysis and Modeling)	Fall 2018
CSCI 3022 (Intro to Data Science with Probability and Statistics)	Fall 2018
CSCI 3022 (Intro to Data Science with Probability and Statistics)	Spring 2018
• [new course] CSCI 3022 (Intro to Data Science with Probability and Statistics)	Fall 2017

How to Science (Series)

- Data Visualization
- Giving a Talk
- Clean Code
- D. D.
- Peer Review
- LaTeX

Complex Networks Winter Workshop

• Networks and hierarchies One 90 minute lecture

• Large-scale structures in networks: Hidden communities and latent hierarchies One 90 minute lecture; Five days of mentorship of graduate student research.

NetSci 2019 International Conference on Network Science

• Large-scale structures in networks: Hidden communities and latent hierarchies One 90 minute lecture

Santa Fe Institute - Complex Systems Summer School

Networks & Hierarchies
 Two 90 minute lectures and one 90 minute workshop.

Networks & Hierarchies
 Two 90 minute lectures and one 90 minute workshop.

University of Michigan

• Comp. Soc. Sci. Workshop (Communities, hierarchies: large-scale network structure) One 8-hour interactive workshop with lectures and interactive course material

Harvard School of Public Health

• Lecturer – CB399 Introduction to Modeling Infectious Disease (networks) One 75 minute lecture.

Kenya Medical Research Institute (KEMRI)

Lecturer – TDModNet Modeling Workshop (networks in genetics & epidemiology)
 One two-hour lecture and workshop.

University of Colorado - Predoctoral

Instructor of Record – APPM 2350, Calculus III (Multivariable Calculus)
 Instructor of Record – APPM 2350, Calculus III (Multivariable Calculus)
 Lead Teaching Asst. – Applied Mathematics
 Teaching Asst. – APPM 1360, Calculus II
 Teaching Asst. – APPM 2360, Ordinary Differential Equations
 Teaching Asst. – APPM 2350, Calculus III (Multivariable Calculus)
 Teaching Asst. – APPM 2350, Calculus III (Multivariable Calculus)

Boulder, CO, USA

Quebec City, Quebec

Jan 6, 2021

Dec 15, 2019

Burlington, VT, USA

May 27, 2019

Santa Fe, NM, USA

June 24-25, 2019

June 25-26, 2018

Ann Arbor, MI, USA Nov 10, 2017

Boston, MA, USA

July 24 & 27, 2014

Kilifi, Kenya

October 3, 2013

Boulder, CO, USA Spring 2012

Fall 2011 2009 - 2010 Fall 2009 Spring 2009 Fall 2008 Summer 2008

• Teaching Asst. – APPM 2350, Calculus III (Multivariable Calculus)

Spring 2008 Fall 2007

Editorial and Referee Work_

Associate Editor

· PLOS Computational Biology

2022 - present

Guest Academic Editor

PLOS Biology

2018

Grant Review

- NSF Science of Science: Discovery, Communication and Impact (SBE)
- NSF Science of Science and Information Policy (SBE)
- NSF Dynamical Systems (DMS)
- NSF/NIH Science of Science: Discovery, Communication, Impact & SCISIPBIO (SBE)

Journal Review

- ACM Transactions on Knowledge Discovery from Data (TKDD)
- · American Journal of Epidemiology
- Communications of the ACM
- Europhysics Letters (EPL)
- IEEE Security and Privacy
- Journal of the Association for Information Science and Technology (JASIST)
- Journal of Complex Networks
- · Journal of Infectious Diseases
- Journal of Machine Learning Research (JMLR)
- Journal of Statistical Mechanics: theory and experiment (JSTAT)
- · Journal of Theoretical Biology
- Malaria Journal
- Methods in Ecology and Evolution
- Nature
- Nature Communications
- Nature Scientific Reports
- Nature Microbiology
- New England Journal of Medicine
- Physical Review Letters (PRL)
- Physical Review X (PRX)
- Physical Review E (PRE)
- Physical Review Research (PRR)
- Physica A
- · PLOS Biology
- PLOS Computational Biology
- PLOS Neglected Tropical Diseases
- PLOS ONE
- Proceedings of the National Academy of Sciences of the USA (PNAS)
- Proceedings of the Royal Society B (Proc B)
- Science
- Science Advances
- Science Translational Medicine
- SIAM Journal on Mathematics of Data Science (SIMODS)
- Vaccines
- Wellcome Open Research

Conference Review

- Program Committee, Atlanta Conference on Science and Innovation, ATLC 2023
- MIDAS Network Annual Meeting, 2022
- Program Committee, Int'l Conf. on Computational Social Science (IC2S2 2017, 2018, 2019, 2020, 2021)
- Program Committee, NetSci 2017, 2019, 2020, 2022, 2023
- · Program Committee, ICWSM Workshop: Beyond Online Data: Tackling Challenging Social Science Questions
- Program Committee, 9th Int'l Conf. on Complex Networks (CompleNet 18, 2018)
- Program Committee, NetSciX 2018, 2020
- Program Committee, Int'l World Wide Web Conf. (WWW 17, 18)
- Program Committee, SIAM Network Science 2016 2019 (NS 16, 17, 18, 19)
- Program Committee, 9th Int'l Conf. on Web Search and Data Mining (WSDM 2016)
- Subreviewer, AAAI Conference on Artificial Learning (AAAI 2014)

University and Professional Service_____

Conferences, Workshops, Speaker Series (Organizer or co-organizer)	
• International Conference on the Science of Science & Innovation	June 7-9, 2022
Chair, Program Committee	<i>3</i>
Nat'l. Acad. of Sciences, Washington D.C.	
A New Synthesis for the Science of Science	May 4-6, 2022
Co-Organizer (with A. Clauset, M. Galesic)	
Santa Fe Institute, Santa Fe, NM	
Statistical Inference for Network Models - A Satellite Symposium of the NetSci Conference	ce
Creator and Organizer	
Rome, Italy (with T. Peixoto, T. Eliassi-Rad, B. Fosdick, and A. Clauset)	June, 2020
Burlington, Vermont (with T. Eliassi-Rad, B. Fosdick, and A. Clauset)	May 27, 2019
Paris, France (with T. Eliassi-Rad, B. Fosdick, and A. Clauset)	June 11, 2018
Indianapolis, Indiana (with T. Broderick, B. Fosdick, and A. Clauset)	June 19, 2017
Seoul, Korea (with B. Fosdick, A. Z. Jacobs, and A. Clauset)	May 31, 2016
Zaragoza, Spain (with L. Peel, A. Z. Jacobs, and A. Clauset)	June 1, 2015
Berkeley, California (with L. Peel, A. Z. Jacobs, and A. Clauset)	June 2, 2014
Slice of Science	2016 - 2017
Organizer	
Santa Fe, NM. Ongoing Santa Fe Institute talk series.	
• Applied Network Science at Longwood Seminar Series, at Harvard School of Public Health.	2014 - 2015
Conceived and organized with John Platig.	
Boston, MA, monthly seminar for network research with biological,	
public health, or medical application.	
Harvard School of Public Health Infectious Disease Epidemiology Seminar Series	2014
Organized with William Hanage.	
Boston, MA	
Mathematics Research Community Workshop on Network Science	June 24-30, 2014
Assisting Aaron Clauset, Mason Porter, & David Kempe	
Snowbird, UT	
• TDModNet Modeling Workshop (networks in genetics & epidemiology)	Oct 3, 2013
Organized with Caroline O. Buckee	
Kenya Medical Research Institute (KEMRI), Kilifi, Kenya	
Front Range Applied Mathematics Student Conference	March 14, 2009
Organized with Daniel N. Kaslovsky, Anne Dougherty, et al.	
University of Colorado Denver	
SLAM Graduate Student Chapter Speaker Series	Spring 2009
Co-organized with Daniel N. Kaslovsky	-

University of Colorado Boulder

PhD Thesis Committees

PhD Thesis Committees	
Unless otherwise indicated, all committees listed include preliminary, comprehensive, and final defenses:	
David Greenblott, Chemical and Biological Engineering. Adv: Ted Randoph	Expected 2024
• Zach Maas, Molecular, Cellular, and Developmental Biology. Adv: Robin Dowell	Expected 2024
Sam Zhang, Applied Mathematics. Adv: Aaron Clauset	Expected 2024
Owen Martin, Computer Science. Adv: Orit Peleg	Expected 2024
Lucas Hayne, Computer Science. Adv: McKell Carsten	Expected 2023
Behzad Vahedi Torghabeh, Geography. Adv: Morteza Karimzadeh	Expected 2023
Aislyn Keyes, Ecology & Evolutionary Biology. Adv: Laura Dee	2023
Graham Kesler O'Connor, Applied Mathematics. Adv: Manuel Lladser	2022
Nicholas Landry, Applied Mathematics. Adv: Juan G. Restrepo	2022
Samantha Molnar, Computer Science. Adv: Elizabeth Bradley	2021
Allison Morgan, Computer Science. Adv: Aaron Clauset	2021
Ignacio Tripodi, Computer Science. Adv: Robin Dowell	2020
Antony Pearson, Applied Mathematics, Adv: Manuel Lladser	2020
• Lee Korshoj, Chem. & Biol. Engr. Adv: Anushree Chatterjee and Prashant Nagpal	2020
Richard Carter Tillquist, Applied Mathematics, Adv: Manuel Lladser	2020
Anna Broido, Computer Science. Adv: Aaron Clauset	2019
Amir Ghasemian, Computer Science. Adv: Aaron Clauset	2018
 Jean-Gabriel Young, Physics, Université Laval, Adv: Louis Dube 	2018
Undergraduate Thesis Committees	
All committees listed include preliminary and final defenses:	
Kieran Zylstra, Computer Science, Adv: Ryan Layer	2022
Maxwell Wenzel, Computer Science. Adv: James Martin	2020
Ian Wilkins, Computer Science. Adv: James Martin	2020
Maxine Hartnett, Computer Science. Adv: Elizabeth Bradley	2019
Brandon Zink, Computer Science. Adv: Rhonda Hoenigman	2019
Lord don't Committee	
Institutional Committees	2022
Univ. Colorado, Computer Science, Executive Committee H. C. L. D. B. C. L. A. L. C. L.	2022 - present
Univ. Colorado, Provost's Faculty Achievement Awards Committee Univ. Colorado, CEAS Davids Committee On the Commi	2022 - 2023
Univ. Colorado, CEAS Dean's Search Committee H. G. L. G.	2022
Univ. Colorado, Computer Science Pedagogy Committee H. G. L. L. W. G. L. B. F. G. L. S. L.	2021 - 2022
Univ. Colorado, Vaccine Policy & Guidance Subcommittee Univ. Colorado, COVID 10 Scientific Administrative	2021
Univ. Colorado, COVID-19 Scientific Advisory Committee Univ. Colorado, EMPOWERS Organistas Committee	2020 - present
Univ. Colorado, EMPOWERS Oversight Committee Univ. Colorado, Computational Riolagy Minor, Constitutos	2020 - present
Univ. Colorado, Computational Biology Minor, Curriculum Committee Univ. Colorado, Computar Science Forulty Search Committee	2019 - present
Univ. Colorado, Computer Science Faculty Search Committee Univ. Colorado, Intendian Overt. Riel Program (IORia). Acad. Advising Committee	2019 - 2020
• Univ. Colorado, Interdisc. Quant. Biol. Program (IQBio), Acad. Advising Committee	
Univ. Colorado, BioFrontiers Institute, Council (Formerly called Task Force) Univ. Colorado, Interdiso, Overt. Riel, Processor (IORio), Consignium Committee	2017 - present
Univ. Colorado, Interdisc. Quant. Biol. Program (IQBio), Curriculum Committee Univ. Colorado, Computer Science, Undergraduate Curriculum Committee	2017 - present 2018 - 2019
 Univ. Colorado, Computer Science, Undergraduate Curriculum Committee Univ. Colorado, BioFrontiers Institute, Social Committee (BioFunTiers) 	2016 - 2019
 Univ. Colorado, Biorronders Institute, Social Confinittee (Biorum Fiers) Univ. Colorado, Interdisciplinary Quant. Biol. Program (IQBio), Grad. Admissions 	2017 - 2018
	2017 - 2018
 Santa Fe Institute, Complex Systems Summer School Admissions Santa Fe Institute, Omidyar Fellowship Review & Selection 	2016 - 2017
Univ. Colorado, Office of Discrimination and Harassment Review	2013 - 2010
Univ. Colorado, Office of Discriminatori and Harassment Review Univ. Colorado, SIAM Graduate Student Chapter	2010 - 2012
- Oniv. Colorado, orran Oradiane olddelle Chapter	2000 - 2010

Outreach Talks and Lectures

• "What I know now that I wish I'd known as a postdoc"

Santa Fe Institute

ISME SEL Postdon in Complexity Conference IV

JSMF – SFI Postdocs in Complexity Conference IX

• Science of Science Summer School (S4), Syracuse University

August 8, 2022

Mentor

"Prioritizing Vaccines: Who Should Get Them First and Why?"
 BioFrontiers Institute Community COVID-19 Session III

• "COVID-19 Surveillance Testing: A Way Out?" September 17, 2020

College of Engineering & Applied Sciences CU Boulder COVID-19 Webinar

• "How do infectious disease models work?" April 13, 2020

BioFrontiers Institute Community COVID-19 Session I

• "What it is to be a Scientist" May 4, 2016

Santa Fe Institute Keynote, SFI High School Prize for Scientific Excellence

• "What it is to be a Scientist" 2016-2019

Santa Fe Institute

REU Program Mentorship

Other Service & Outreach__

Faculty Sanity Boulder, CO

A monthly, open, unstructured meetup for junior faculty at CU Boulder, all departments.

Founder, Organizer 2018 - 2021

March for Science - Santa Fe
Lead Organizer
Santa Fe, NM
April 22, 2017

New Mexico Corrections / Penitentiary of New Mexico Santa Fe, NM

Volunteer math teacher and tutor January 2016 - May 2017

Santa Fe Alliance for ScienceSanta Fe, NMScience fair judge2015 - 2017

Greater University Service Foundation, Inc.St. Louis, MODirector2008 - 2022Co-founder and Secretary2006 - 2008

The Boulder County AIDS ProjectBoulder, COVolunteer math tutor; grocery packing and delivery.2005 - 2011