Curriculum Vitae

Daniel B. Larremore

Contact Information	
BioFrontiers Institute 3415 Colorado Ave. Boulder, CO 80303, USA	<u>LarremoreLab.github.io</u> <u>daniel.larremore@colorado.edu</u> <u>Google Scholar</u>
Education	
University of Colorado Boulder Ph.D, Applied Mathematics. "Critical Dynamics in Complex Excitable Networks" Advisor: Juan G. Restrepo	2012
University of Colorado Boulder M.S., Applied Mathematics	2009
Washington University in St. Louis B.S., Chemical Engineering, cum laude.	2005
Academic Positions	
University of Colorado Boulder Associate Professor, Department of Computer Science Assistant Professor, Department of Computer Science Core Faculty, BioFrontiers Institute Affiliate Faculty, Department of Applied Mathematics Harvard T.H. Chan School of Public Health External Faculty, Center for Communicable Disease Dynamics Postdoctoral Fellow, Center for Communicable Disease Dynamics Advisor: Caroline Buckee (HSPH), Aaron Clauset (Colora Santa Fe Institute Omidyar Fellow Editorial Positions PLOS Computational Biology Academic Editor	
Awards	
 Alan T. Waterman Award, National Science Foundation Brilliant 10, Popular Science Robert L. Stearns Award, University of Colorado Bould Provost's Faculty Achievement Award, University of Colorado Bould Research & Innovation Office Faculty Fellow, Univ. Colorado Bould Best Poster – Genetic Epidemiology of Malaria, Sanger Best Poster – NetSci 2014, Berkeley, CA Best Poster – Dynamics Days 2010, Evanston, IL 	2022 der 2021 colorado Boulder 2021 Colorado Boulder 2020

- * 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).
- ★ I. Van Buskirk, A. Clauset, D. B. Larremore. "An Open-Source Cultural Consensus Approach to Name-Based Gender Classification", To appear in the Proceedings of the International Conference on Web and Social Media (ICWSM), (2023).
- 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. "Geographically skewed recruitment and COVID-19 seroprevalence estimates: A cross-sectional serosurveillance study and mathematical modeling analysis." BMJ Open, 13:e061840 (2023).
- 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" Frontiers in Tropical Diseases, 4 (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)
- 14. 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).
- 27. 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." *SLAM 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 the International Conference on Web and Social Media (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).
- 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).
- M. J. Mina, R. Parker, D. B. Larremore. "Rethinking Covid-19 Test Sensitivity A Strategy for Containment." The New England Journal of Medicine (2020).
- 56. 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

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

Industry Experience and Advising_

Darwin BioSciences Boulder, CO Scientific Advisory Board 2020 -

Gambro Blood Component Technologies

Lakewood, CO Research and Development Engineer 2005 - 2007 Summer 2005 Engineering Intern II Engineering Intern I Summer 2004

Invited Talks_

· Briefing: "The Preeminence of Prestige"

Committee on Pathways to Doctoral Degrees in Computing, NASEM, Wash. D.C. May 9, 2023

"Toward evidence-based strategies for improving diversity, equity, and inclusion in science"

Panelist & Moderator. Metascience, Washington D.C. May 9, 2023

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

Opportunity Insights, Harvard University, Cambridge, MA May 3, 2023

• "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, <i>Rochester Inst. Tech.</i> , Rochester, NY • "Trends in US faculty hiring & retention from 10 years of data: a study of prestige, d SFI Year In Review, <i>Santa Fe Institute</i> , Santa Fe, NM • "Trends in US faculty hiring & retention from 10 years of data: a study of prestige, d	iversity & inequality" December 15, 2022
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, d	iversity & 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	November 11, 2022
• "Estimating the Mitigation Potential of Screening Programs for Infectious Diseases"	
Department of Biological Sciences Seminar, Purdue University, West Lafayette, IN	November 2, 2022
"Quantifying hierarchy and dynamics in U.S. faculty hiring and retention"	
Research Webinar, Academic Analytics Research Center	October 21, 2022
• "Trends in US faculty hiring & retention from 10 years of data: a study of prestige, d	
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, Boulder, CO	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" 	
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 Un-	
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Society for Mathematical Biology, COVID-19 Vaccination Minisymposium	certainty & Inequity" June 16, 2021
Society for Mathematical Biology, COVID-19 Vaccination Minisymposium	
Society for Mathematical Biology, COVID-19 Vaccination Minisymposium • "Modeling COVID-19 Testing Strategies: Mitigation vs Information"	June 16, 2021 June 2, 2021
Society for Mathematical Biology, COVID-19 Vaccination Minisymposium • "Modeling COVID-19 Testing Strategies: Mitigation vs Information" Laboratory Medicine Research Conference, Yale School of Medicine	June 16, 2021 June 2, 2021
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Society for Mathematical Biology, COVID-19 Vaccination Minisymposium • "Modeling COVID-19 Testing Strategies: Mitigation vs Information" Laboratory Medicine Research Conference, Yale School of Medicine • "Vaccination Strategies Prioritization, Dose Sparing, and Decision Making Under Unc Computing Advisory Board, Dept. of Computer Science, Univ. Colorado Boulder • "Vaccination Strategies Prioritization, Dose Sparing, and Decision Making Under Unc Colloquium, Santa Fe Institute	June 16, 2021 June 2, 2021 certainty & Inequity" April 15, 2021 certainty & Inequity" March 17, 2021
Society for Mathematical Biology, COVID-19 Vaccination Minisymposium • "Modeling COVID-19 Testing Strategies: Mitigation vs Information" Laboratory Medicine Research Conference, Yale School of Medicine • "Vaccination Strategies Prioritization, Dose Sparing, and Decision Making Under UncComputing Advisory Board, Dept. of Computer Science, Univ. Colorado Boulder • "Vaccination Strategies Prioritization, Dose Sparing, and Decision Making Under Under Univ."	June 16, 2021 June 2, 2021 certainty & Inequity" April 15, 2021 certainty & Inequity" March 17, 2021
Society for Mathematical Biology, COVID-19 Vaccination Minisymposium • "Modeling COVID-19 Testing Strategies: Mitigation vs Information" Laboratory Medicine Research Conference, Yale School of Medicine • "Vaccination Strategies Prioritization, Dose Sparing, and Decision Making Under Unc Computing Advisory Board, Dept. of Computer Science, Univ. Colorado Boulder • "Vaccination Strategies Prioritization, Dose Sparing, and Decision Making Under Unc Colloquium, Santa Fe Institute	June 16, 2021 June 2, 2021 certainty & Inequity" April 15, 2021 certainty & Inequity" March 17, 2021
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Society for Mathematical Biology, COVID-19 Vaccination Minisymposium "Modeling COVID-19 Testing Strategies: Mitigation vs Information" Laboratory Medicine Research Conference, Yale School of Medicine "Vaccination Strategies Prioritization, Dose Sparing, and Decision Making Under UncComputing Advisory Board, Dept. of Computer Science, Univ. Colorado Boulder "Vaccination Strategies Prioritization, Dose Sparing, and Decision Making Under UncColloquium, Santa Fe Institute "Model-informed COVID-19 vaccine prioritization and dose-sparing strategies by ago Div. of Infectious Diseases Grand Rounds, Univ. of Colorado Anschutz Sch. Medicine	June 16, 2021 June 2, 2021 certainty & Inequity" April 15, 2021 certainty & Inequity" March 17, 2021 e and serostatus"
Society for Mathematical Biology, COVID-19 Vaccination Minisymposium "Modeling COVID-19 Testing Strategies: Mitigation vs Information" Laboratory Medicine Research Conference, Yale School of Medicine "Vaccination Strategies Prioritization, Dose Sparing, and Decision Making Under Uncomputing Advisory Board, Dept. of Computer Science, Univ. Colorado Boulder "Vaccination Strategies Prioritization, Dose Sparing, and Decision Making Under Uncolloquium, Santa Fe Institute "Model-informed COVID-19 vaccine prioritization and dose-sparing strategies by agrive of Infectious Diseases Grand Rounds, Univ. of Colorado Anschutz Sch. Medicine "Model-informed COVID-19 Vaccine Prioritization Strategies by Age & Serostatus"	June 16, 2021 June 2, 2021 certainty & Inequity" April 15, 2021 certainty & Inequity" March 17, 2021 e and serostatus" March 3, 2021
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Panelist: COVID-19 Briefing on Testing For COVID-10 Let III. For No. 1, City The Covid Activities of the City The Covid Activities of	1 11 2020
Ergo COVID-19 Intelligence Forum, New York City	August 11, 2020
"Surveillance Testing of SARS-CoV-2" COVID 10 Concerning Research Network Marting New York Concern Content	Assesset 2, 2020
COVID-19 Genomics Research Network Meeting, New York Genome Center, "Modeling the impacts of test sensitivity, frequency, and turnaround time for COVID	August 3, 2020
CSQUID/CIDID Seminar, <i>University of Florida College of Medicine</i> , Gainesville, FL.	July 29, 2020
"SARS-CoV-2 Seroprevalence Estimation, Study Design, and Modeling"	July 29, 2020
BioStatistics Seminar, <i>University of Colorado Medical School</i> , Aurora, CO.	June 17, 2020
"Explaining Gender Differences in Academics' Career Trajectories"	Julie 17, 2020
Webinar, Computational Social Science Society of the Americas	May 6, 2020
"How do Infectious Disease Models Work?"	Way 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"	11pin 1, 2020
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, <i>University of Colorado Boulder</i> , Boulder, CO	January 17, 2020
"Complex networks and <i>P. falciparum</i> : from evolution to epidemiology"	J
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	·
CompleNet, Boston, MA	March 4, 2018
"Gender, prestige, and productivity in academic hiring networks and career trajectoric	
Annenberg School of Communication, <i>University of Pennsylvania</i> , 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,	I 12 2010
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, <i>Joint Mathematics Meeting</i> , San Diego, CA	Inp. 11 2019
"Large-scale structures in networks: hidden communities and latent hierarchies."	Jan 11, 2018
Network Science School, <i>NetSciX</i> , Hangzhou, China.	Jan 5, 2018
"The assembly of prestige and status in networks."	jaii 3, 2010
Omidyar Network Applied Complexity Meeting, Santa Fe Institute, Santa Fe, NM.	Dec 12, 2017
"A physical model for efficient ranking in networks."	Dec 12, 2017
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."	
Dynamics of/on Complex Networks Satellite Symp., NetSci 2017, Indianapolis, IN	June 20, 2017
Dynamics of/on Complex Networks Satellite Symp., <i>NetSci 2017</i> , Indianapolis, IN • "Gender, prestige, and productivity in academic hiring networks and career trajectoric	•

Workshop on Gendered Creative Teams, <i>Central European Univ.</i> , Budapest, Hungary "Gender, prestige, and productivity in academic hiring networks and career trajectori	May 25, 2017
Seminar, Berkeley Institute for Data Science, <i>UC Berkeley</i> , Berkeley, CA	Mar 17, 2017
• "The assembly of prestige and status in networks."	11111 17, 2017
Influence, Complexity and Networks, <i>Dialog Group</i> , Austin, TX	Feb 23, 2017
• "The ground truth about metadata and community detection in networks."	
Networks Seminar, University of Houston, Houston, TX	Oct 28, 2016
"Gender, prestige, and productivity in faculty hiring networks."	,
Quantifying Success Satellite Symposium, NetSci 2016, Seoul, Korea	June 1, 2016
• "Networks and the evolution of malaria's virulence in humans and apes."	
Network Frontiers Workshop, Northwestern Univ. Inst. of Complex Systems, Evanston, IL	Dec 7, 2015
• "Networks in two acts: faculty hiring hierarchies and malaria's evolving virulence."	
Arts & Sciences Seminar, Clarkson University, Potsdam, NY	Nov 13, 2015
 "Networks and the evolution of malaria's virulence in humans and apes." 	
Mathematics Colloquium, Clarkson University, Potsdam, NY	Nov 12, 2015
• "Networks, inference, and the evolution of malaria's virulence in humans and apes."	
Mechanical Engr. Seminar, University of New Mexico, Albuquerque, NM	Nov 6, 2015
"A complex networks approach to malaria's genetic recombination dynamics."	
Minisymposium, SIAM Conf. on Applications of Dynamical Systems (DS15), Snowbird, UT	May 15, 2015
 "Using networks to analyze rapid genetic recombination in malaria parasites." 	
Dynamics & Complex Systems Seminar, Applied Math, University of Colorado Boulder	April 9, 2015
"Complex networks, rapid genetic recombination, and tricky malaria antigens."	
Mathematics Colloquium, Western New England University	Nov 7, 2014
 "Efficiently inferring community structure in bipartite networks." 	
Seminar at Network Science and Graph Algorithms Program, ICERM, Brown University	Mar 4, 2014
"Ceaseless critical dynamics in excitable networks with inhibitory nodes."	
Information, Self-Organizing Dynamics, and Synchronization on Complex Networks,	
(ISODS) Satellite Symposium, NetSci 2014, 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	
Seminar, Center for Complex Network Research, Northeastern University "Producting oriticality and dynamic range in normality networks of feats of topology"	Feb 5, 2013
• "Predicting criticality and dynamic range in complex networks: effects of topology." Ministry Control of Applications of Dynamical Systems (DS11) Spowbird LIT	May 22 2011
Minisymposium, SIAM Conf. on Applications of Dynamical Systems (DS11), Snowbird, UT	1V1AY 43, 4011

Contributed or Submitted Talks and Presentations

 NetSci, Paris, France Genetic Epidemiology of Malaria – poster [best poster award], Sanger Institute, UK CompleNet, Network Science Institute at Northeastern University, Boston, MA. Dynamical Systems Seminar, CU Boulder, Boulder, CO. StatOptML Seminar, CU Boulder, Boulder, CO. NetSci, Indianapolis, IN. Complex Systems Summer School, Santa Fe Institute, Santa Fe, NM. 	ay 23, 2019 pril 17, 2019 ctober 31, 2018 agust 30, 2018 ly 14, 2018 ne 15, 2018 ne 13, 2018 arch 5, 2018 ov 2, 2017 ppt 12, 2017 ne 21, 2017 ne 14, 2017
• Santa Fe Science Writers' Workshop, Santa Fe Institute, Santa Fe, NM. Ma	116 10, 2017

Outside In cominger Sente Ee Institute Canta Fo NM	October 10, 2016
Outside In seminar, Santa Fe Institute, Santa Fe, NM. Conformed on Complex Systems (CCS), Amsterdam, NI.	October 19, 2016
Conference on Complex Systems (CCS), Amsterdam, NL SIAM Newpork Science (SIAM NS16), Poster M.4. On the conference of Complex Systems (CCS), Amsterdam, NL SIAM Newpork Science (SIAM NS16), Poster M.4. On the conference of Complex Systems (CCS), Amsterdam, NL SIAM Newpork Science (SIAM NS16), Poster M.4.	September 22, 2016
• SIAM Network Science (SIAM NS16), Boston, MA	July 15, 2016
Int'l Conf. on Computational Social Science (IC2S2), Northwestern University New York Science (IC2S2), Northwestern University New York Science (IC2S2), Northwestern University	June 24, 2016
NetSci, Seoul, Korea Lill G. G. Lill G. Lill G. Lill G. Lill G. Lill G. G. Lill G.	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	April 10, 2015
Boston Area Parasitology Symposium (BAPS), Boston, MA	December 8, 2014
• Defeating Malaria: from genes to the globe – poster Harvard School of Public Health	December 2, 2014
• ASTMH – poster, New Orleans, LA	November 4, 2014
Harvard Channing Network Science Seminar, Boston, MA.	October 31, 2014
 NetSci – poster [best poster award], Berkeley, CA 	June 4, 2014
 BioMalPar/EVIMalar, EMBL, Heidelberg, Germany 	May 13, 2014
 Network Frontiers Workshop, NICO, Northwestern University 	December 6, 2013
• ASTMH – poster, Washington D.C.	November 15, 2013
 Oxford Tropical Network, KEMRI, Kilifi, Oxford-Wellcome Trust, Kenya 	October 1, 2013
 Networks Journal Club, OCIAM, Oxford University, UK 	March 8, 2013
 Dynamics Days – poster, University of Colorado Boulder 	January 3, 2013
 Freeman Symposium, Harvard School of Public Health 	December 14, 2012
 Ph.D. Dissertation Defense, University of Colorado Boulder 	April 5, 2012
 Front Range Applied Mathematics Student Conference, Univ. of Colorado Denver 	March 3, 2012
 Dynamics Days – poster, University of Maryland 	January 3, 2012
 Comprehensive Examination, University of Colorado Boulder 	September 27, 2011
 Front Range Applied Mathematics Student Conference, Univ. of Colorado Denver 	March 5, 2011
 Dynamics Days 2011, Duke University 	January 6, 2011
 Complex and Dynamical Systems Seminar, University of Colorado Boulder 	October 20, 2010
 Nonlinear Dynamics of Networks (NTD10) – poster, University of Maryland 	April 4, 2010
 Complex and Dynamical Systems Seminar, University of Colorado Boulder 	April 1, 2010
• Front Range Applied Mathematics Student Conference, Univ. of Colorado Denver	March 6, 2010
Dynamics Days 2010 – poster, Northwestern University	January 3, 2010
Supported Workshops	
Model-Based Research and Reproducibility Workshop, Center for Open Science	Feb 4-5, 2020
Network Null Models Working Group, NIMBIOS	Oct 23-26, 2019
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Decision Processes in Networks, Triennial Choice Symposium The Decision Processes in Networks and	May 29-June 2, 2019
• The Dynamics of Discovery: Is Science Slowing and Can We Speed It Up?	March 16-17, 2018
Affiliations, Accreditations	
Models of Infectious Disease Agent Study Network – Member	2020 - present
Network Science Society – Member	2014 - present
American Mathematical Society – Member	2014 - present
American Society of Tropical Medicine and Hygiene – Member	2013 - present
Society of Industrial and Applied Mathematics – Member	2008 - present
NIH "Protecting Human Research Participants" – Certification	2016 - present
Physical Review Letters – "Inhibition causes ceaseless" – Editors' Suggestion	April, 2014
National Postdoctoral Association – Member	2012 - 2015
Arts and Sciences Dean's Teaching Assistant Fellowship	Spring 2010
Colorado – Lead Teaching Assistant, Dept. of Applied Mathematics	2009 - 2010

Postdocs	
Dr. Katherine Wootton, Computer Science	2021 - 2022
Dr. Eun Lee, Computer Science	2020 - 2022
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PhD Students	
Tzu-Chi Yen, Computer Science (co-adv: Josh Grochow)	2018 - present
K. Hunter Wapman, Computer Science	2019 - present
Nicholas LaBerge, Computer Science (co-adv: Aaron Clauset)	2019 - present
Ian van Buskirk, Computer Science (co-adv: Aaron Clauset)	2019 - present
Kate Bubar, Computer Science	2020 - present
Katherine Spoon, Computer Science (co-adv: Aaron Clauset)	2020 - present
Casey Middleton, Computer Science	2021 - present
Dr. Erik Johnson, Applied Mathematics	2019 - 2021
Thesis: "Measuring image resolution in super-resoultion microscopy and Bayesian	estimation of population size
and overlap and vaccine effectiveness"	
PhD Potation Students (IO Rislaws)	
PhD Rotation Students (IQ Biology) • Vanessa Maybruck	2022
Casey Middleton	2021
Sharon Wu	2020
• Elise Tate	2019
• Kate Bubar	2019
Sierra Jech	2019
Phillip Benson	2019
Dieu My Nguyen	2018
Michael Smallegan	2018
Masters Students	
Upasana Dutta, M.S. Computer Science, Colorado	2022
Aaron Aaeng, M.S. Computer Science, Colorado	2020
Thesis: "Matchbox: Adaptive Comparison Graphs for Restricted Tournaments"	
Marshall Y. Carpenter, M.S. Applied Math, Colorado	2012
(Co-adv: Juan G. Restrepo, National Science Foundation, Mentoring Through Criti	cal Transition Points)
Undergraduate Students	
Aloha Churchill, University of Colorado Boulder	2020 - 2021
Suchita Lulla, University of Colorado Boulder	2018 - 2021
Aparajithan Venkateswaran, University of Colorado Boulder	2018 - 2020
Thesis: "Understanding SpringRank through Random Utility Models, Identifiability	
National Science Foundation REU	, I
Mark Wilmes, Computer Science	2019
Thesis: "Using Machine Learning to Identify Files on Disk that Contain Sensitive I	nformation"
Suyog Soti, University of Colorado Boulder	2018 - 2019
Katie Younglove, University of Colorado Boulder	2018 - 2019
National Science Foundation REU	
Robert Steele, University of Colorado Boulder	2018
Phuc Nguyen, Macalester College via the Santa Fe Institute	2017
Maya Banks, Carleton College via the Santa Fe Institute	2017

William McKinnon, High School Student, Santa Fe Institute
 Kat Wicks, High School Student, Santa Fe Institute
 2015 - 2016

Teaching_

University of Colorado Boulder	Boulder, CO, USA
CSCI 2897 (Calculating Biological Quantities)	Fall 2022
CSCI 2897 (Calculating Biological Quantities)	Fall 2021
• [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
- · 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.

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

University of Colorado - Predoctoral Boulder, CO, USA • Instructor of Record – APPM 2350, Calculus III (Multivariable Calculus) Spring 2012 • Instructor of Record – APPM 2350, Calculus III (Multivariable Calculus) Fall 2011 • Lead Teaching Asst. - Applied Mathematics 2009 - 2010 • Teaching Asst. – APPM 1360, Calculus II Fall 2009 • Teaching Asst. - APPM 2360, Ordinary Differential Equations Spring 2009 • Teaching Asst. – APPM 2350, Calculus III (Multivariable Calculus) Fall 2008 • Teaching Asst. – APPM 2350, Calculus III (Multivariable Calculus) Summer 2008 • Teaching Asst. - APPM 2360, Ordinary Differential Equations Spring 2008

Editorial and Referee Work

Associate Editor

· PLOS Computational Biology

2022 - present

Fall 2007

Guest Academic Editor

· PLOS Biology

2018

Grant Review

• NSF - Science of Science: Discovery, Communication and Impact (SBE)

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

- 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 A (Proc A)
- 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	
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 • SIAM Graduate Student Chapter Speaker Series Spring 2009 Co-organized with Daniel N. Kaslovsky University of Colorado Boulder 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: • Megan Hupka, Molecular, Cellular, and Dev. Biol. Adv: Luis Zea. & Louis Stodeick 2023 • 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 **Institutional Committees** 2022 - present • Univ. Colorado, Computer Science, Executive Committee • Univ. Colorado, Provost's Faculty Achievement Awards Committee 2022 - 2023 • Univ. Colorado, CEAS Dean's Search Committee 2022 • Univ. Colorado, Computer Science Pedagogy Committee 2021 - 2022 • Univ. Colorado, Vaccine Policy & Guidance Subcommittee 2021 Univ. Colorado, COVID-19 Scientific Advisory Committee 2020 - present • Univ. Colorado, EMPOWERS Oversight Committee 2020 - present • Univ. Colorado, Computational Biology Minor, Curriculum Committee 2019 - present • Univ. Colorado, Computer Science Faculty Search Committee 2019 - 2020 Univ. Colorado, Interdisc. Quant. Biol. Program (IQBio), Acad. Advising Committee 2018 - 2020

• Univ. Colorado, BioFrontiers Institute, Council (Formerly called Task Force)

2017 - present

 Univ. Colorado, Interdisc. Quant. Biol. Program (IQBio), Curriculum Committee Univ. Colorado, Computer Science, Undergraduate Curriculum Committee Univ. Colorado, BioFrontiers Institute, Social Committee (BioFunTiers) Univ. Colorado, Interdisciplinary Quant. Biol. Program (IQBio), Grad. Admissions Santa Fe Institute, Complex Systems Summer School Admissions Santa Fe Institute, Omidyar Fellowship Review & Selection Univ. Colorado, Office of Discrimination and Harassment Review Univ. Colorado, SIAM Graduate Student Chapter 	2017 - present 2018 - 2019 2017 - 2018 2017 - 2018 2016 - 2017 2015 - 2016 2010 - 2012 2008 - 2010
Outreach Talks and Lectures	
• "What I know now that I wish I'd known as a postdoc"	October 20, 2022
Santa Fe Institute	
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?"	November 20, 2020
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	A 1112 2020
"How do infectious disease models work?" Pio Propriess Institute Companying COVID 10 Seeding I	April 13, 2020
BioFrontiers Institute Community COVID-19 Session I • "What it is to be a Scientist"	May 4, 2016
Santa Fe Institute	May 4, 2010
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 A monthly, open, unstructured meetup for junior faculty at CU Boulder, all department	Boulder, CO
Founder, Organizer	2018 - 2021
March for Science - Santa Fe	Santa Fe, NM
Lead Organizer	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 Science	Santa Fe, NM
Science fair judge	2015 - 2017
Greater University Service Foundation, Inc.	St. Louis, MO
Director	2008 - 2022
Co-founder and Secretary	2006 - 2008
The Boulder County AIDS Project	Boulder, CO
Volunteer math tutor; grocery packing and delivery.	2005 - 2011