Curriculum Vitae

Daniel B. Larremore

daniel.larremore@colorado.edu

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BioFrontiers Institute 3415 Colorado Ave. Boulder, CO 80303, USA +1-303-735-8757 $Website: \underline{LarremoreLab.github.io}$

Twitter: <u>@danlarremore</u> Google Scholar: <u>here</u> Github: <u>@DBLarremore</u>

Education

University of Colorado Boulder, Department of Applied Mathematics

Ph.D in Applied Mathematics. Advisor: Juan G. Restrepo "Critical Dynamics in Complex Excitable Networks"

University of Colorado Boulder, Department of Applied Mathematics

M.S. in Applied Mathematics

2009

2005

2012

Washington University in St. Louis, School of Engineering and Applied Science

B.S. in Chemical Engineering, cum laude

Academic Positions

University of Colorado
Assistant Professor, BioFrontiers Institute

Assistant Professor, Computer Science Affiliate Faculty, Applied Mathematics Boulder, CO

2017 - Present 2017 - Present

2020 - Present

Harvard T.H. Chan School of Public Health

External Faculty, Center for Communicable Disease Dynamics

Boston, MA 2020 - Present

Santa Fe Institute

Omidyar Fellow

Santa Fe, NM 2015 - 2017

Harvard School of Public Health, Center for Communicable Disease Dynamics Postdoctoral Fellow with Caroline Buckee (HSPH) and Aaron Clauset (Colorado)

Boston, MA 2012 - 2015

University of Colorado

Research Assistant with advisor Juan G. Restrepo (Colorado)

Research Assistant and Mentor, MCTP Program - NSF DMS-060228

Boulder, CO 2009 - 2012

June 2010 - May 2011

Industry Experience_

Gambro Blood Component Technologies

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

- 1. **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).
- 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).
- 3. † 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). [link]
- 4. 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).
- 5. 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).
- 6. **D. B. Larremore**. "Bayes-optimal estimation of overlap between populations of fixed size." *PLOS Computational Biology* 15(3): e1006898. (2019).
- 7. 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). [link]
- 8. C. De Bacco*, **D. B. Larremore***, C. Moore. "A physical model for efficient ranking in networks." *Science Advances* **4**(7) eaar8260 (2018). [link]
- 9. † 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). [link]
- 10. 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). [link] [Also accepted at *ICWSM* 2017, social science track (non-archival).]
- 11. L. Peel*, **D. B. Larremore***, A. Clauset. "The ground truth about metadata and community detection in networks." *Science Advances* **3**(5) e1602548 (2017).
- 12. 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).
- 13. 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).
- 14. **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).
- 15. A. Clauset, S. Arbesman, **D. B. Larremore**, "Systematic inequality and hierarchy in faculty hiring networks." *Science Advances*, **1**, e1400005 (2015).
- 16. 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).
- 17. **D. B. Larremore,** A. Clauset, and A. Z. Jacobs, "Efficiently inferring community structure in bipartite networks." *Physical Review E*, **90**(1), 012805 (2014).
- 18. **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).
- 19. **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).
- 20. **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).
- 21. **D. B. Larremore**, M. Y. Carpenter, E. Ott, and J. G. Restrepo, "Statistical properties of avalanches in networks." *Physical Review E* **85**, 066131 (2012).

- 22. **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).
- 23. **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).

*equal contribution † alphabetical author order

Submitted or In-Press Publications_

- 24. T.-C. Yen, **D. B. Larremore**. Community Detection in Bipartite Networks with Stochastic Blockmodels. *In Press, Physical Review E* (2020).
- 25. 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." *In Press, Nature Communications* (2020).
- 26. A. Patania, B. McShane, B. Falk, **D. B. Larremore**, E. McDonnell Feit, E. Bruch, F. Feinberg, J. Helveston, M. Small, M. Braun, N. Fefferman, Choice Symposium Working Paper. *Submitted* (2020).
- 27. 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." *Submitted* (2020).
- 28. K. Finlinson, W. L. Shew, **D. B. Larremore**, J. G. Restrepo. Control of excitable systems is optimal near criticality. *Submitted* (2019).
- 29. **D. B. Larremore**,* K. Joseph*, A. Hannak*, A. Cimpian*, "Explaining Gender Differences in Academics' Career Trajectories." *Submitted* (2020).
- 30. **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." *Submitted* (2020).
- 31. 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." *Submitted* (2020).
- 32. **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 surveillance." *Submitted* (2020).
- 33. 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" *Submitted* (2020).
- 34. M. Kawakatsu*, P. S. Chodrow*, N. Eikmeier, **D. B. Larremore**. "Emergence of hierarchy in networked endorsement dynamics." *Submitted* (2020).
- 35. M. I. Nisar, N. Ansari, M. Amin, F. Khalid, A. Hotwani, N. Rehman, 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 of antibodies to SARS-CoV-2 in a low and high transmission area of Karachi, Pakistan." *Submitted* (2020).
- 36. 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." *Submitted* (2020)
- 37. 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" *Submitted* (2020)

*	equal	l contril	bution	
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- 1. **D. B. Larremore**, A. C. Morgan, A. Clauset. "More Inclusive Scholarship Begins With Active Experimentation." *The Chronicle of Higher Education*, 1 November, 2017. [invited letter] [link]
- 2. **D. B. Larremore**, A. Clauset. "Why predicting the future is more than just horseplay." *The Christian Science Monitor*, 24 April, 2017. [contributed essay] [link]
- 3. A. Clauset, **D. B. Larremore**, R. Sinatra. "Data-driven predictions in the science of science." *Science* **355**, 477-480 (2017). [invited perspective piece]
- 4. D. E. Geer Jr. and **D. B. Larremore**, "Progress is Infectious." *IEEE Security & Privacy* **10**(6) p. 94-95 (2012).
- 5. † 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 here via arXiv.org.

† alphabetical author order

Book Chapters_

- 1. 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).
- 2. **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).

Funding

"Mapping the Structure and Dynamics of the Scientific Ecosystem."

2019-2022

PI, with Aaron Clauset (co-I; Colorado), and Mirta Galesic and Jennifer Dunne (co-Is, Santa Fe Institute) 19RT0301. AFOSR Minerva, \$2,568,889.

"Academic hiring networks and scientific productivity across disciplines."

2016-2020

PI, with Mirta Galesic (co-PI; Santa Fe Institute) and Aaron Clauset (PI; Colorado) SMA 1633747. NSF SBE, \$550,000.

"Models of Infections Disease Agents Study Center for Communicable Disease Dynamics"

Consultant, with Marc Lipsitch (PI; Harvard School of Public Health).

U54 GM088558. NIH NIGMS, \$11,279,771

2015-2019

"Network Assortativity" collaboration grant

Proposer, with Bailey Fosdick (Colorado State), Joel Nishimura (Arizona State), and

Johan Ugander (Microsoft Research)

Amer. Mathematical Soc. (AMS) Mathematical Research Communities, \$2,250

2014

Invited Talks

• "Surveillance Testing of SARS-CoV-2"

McGill Genome Center, McGill University

August 13, 2020

• Panelist: COVID-19 Briefing on Testing

Ergo COVID-19 Intelligence Forum, New York City

August 11, 2020

• "Surveillance Testing of SARS-CoV-2"

COVID-19 Genomics Research Network Meeting, New York Genome Center,

August 3, 2020

"Modeling the impacts of test sensitivity, frequency, and turnaround time for COVID-19 surveillance."
 CSQUID/CIDID Seminar, University of Florida College of Medicine, Gainesville, FL. July 29, 2020

• "SARS-CoV-2 Seroprevalence Estimation, Study Design, and Modeling"

BioStatistics Seminar, University of Colorado Medical School, Aurora, CO.

June 17, 2020

• "Explaining Gender Differences in Academics' Career Trajectories"

^{*} equal contribution

Webinar, Computational Social Science Society of the Americas	May 6, 2020
"How do Infectious Disease Models Work?"	
Collabeeration, BioFrontiers Institute, University of Colorado Boulder, Boulder, CO	April 1, 2020
• "Complex networks and <i>P. falciparum</i> : from evolution to epidemiology"	36 0 2020
Computational BioSciences Seminar, University of Colorado Medical School, Aurora, CO.	Mar 9, 2020
• "Complex networks, math, and malaria: from evolution to epidemiology"	I 17 2020
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"	NI 0 2010
Applied Math & Statistics Colloquium, <i>Colorado School of Mines</i> , Golden, CO.	Nov 8, 2019
Panelist: "Development of Trustworthy AI" Marilla Foundation of CLI Data Science Trans Boulder, CO.	O-t-10 2010
Mozilla Foundation & CU Data Science Team, Boulder, CO	October 8, 2019
"Complex networks and <i>P. falciparum</i> : from evolution to epidemiology" In factions Disease Fairbonish and Sentings Sentings Harmond Selb Pub. Harbt Barton MA.	M 0 2010
Infectious Disease Epidemiology Seminar Series, Harvard Sch. Pub. Health, Boston, MA.	May 9, 2019
• "Which community detection method is best?"	M 22, 2019
Analysis and Interpretation of Connectomes, <i>HHMI Janelia</i> , Ashburn, VA.	May 22, 2018
"A physical model for efficient ranking in networks." A solid Model Society JUNG Chatal Hill Characteristic No.	A 11 2010
Applied Math Seminar, UNC Chapel Hill, Chapel Hill, NC.	Apr 11, 2018
"A physical model for efficient ranking in networks." Delta Network Analysis Contractory in a Delta Hairwrite Deskare NG.	A = = 10 2010
Duke Network Analysis Center seminar, <i>Duke University</i> , 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 Spings	
Special Session: Network Science,	Inn 12 2019
Joint Mathematics Meeting, San Diego, CA "Testimeting the entropy of estimits in evoltable networks"	Jan 12, 2018
"Estimating the entropy of activity in excitable networks" Special Session Emergent Phonograph in Disprets Models	
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 11 2010
Joint Mathematics Meeting, San Diego, CA	Jan 11, 2018
• "Large-scale structures in networks: hidden communities and latent hierarchies."	In 5 2019
Network Science School, NetSciX, Hangzhou, China.	Jan 5, 2018
"The assembly of prestige and status in networks." Omidwa Network Applied Complexity Meeting Seats To Institute Seats To NIM	Dec 12, 2017
Omidyar Network Applied Complexity Meeting, Santa Fe Institute, Santa Fe, NM.	Dec 12, 2017
"A physical model for efficient ranking in networks." Physical Collogorium, II. 4 rh grass, Frontsville.	Nov. 17, 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. 0. 2017
, , , , , , , , , , , , , , , , , , ,	Nov 9, 2017
"Gender, prestige, and productivity in academic hirring networks and career trajectoric NSE EAST, Machina Logrange for Discovery Science, Versyon, Armenia	
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
"Gender, prestige, and productivity in academic hiring networks and career trajectoric	•
Workshop on Gendered Creative Teams, <i>Central European Univ.</i> , 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	
"The assembly of prestige and status in networks."	Mar 17, 2017
Inflience I omnlevity and Nerworks I halos I -roun Austin I x	Feb 23 2017
Influence, Complexity and Networks, <i>Dialog Group</i> , Austin, TX "The ground truth about metadata and community detection in networks"	Feb 23, 2017
• "The ground truth about metadata and community detection in networks."	
• "The ground truth about metadata and community detection in networks." Networks Seminar, <i>University of Houston</i> , Houston, TX	Feb 23, 2017 Oct 28, 2016
• "The ground truth about metadata and community detection in networks."	

• "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." Nov 12, 2015 Mathematics Colloquium, Clarkson University, Potsdam, NY "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." Nov 7, 2014 Mathematics Colloquium, Western New England University • "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, and ceaseless activity." Dynamics & Complex Systems Seminar, Applied Math, University of Colorado Boulder Feb 28, 2013 "Critical dynamics in balanced excitable networks: neuronal avalanches, dynamic range, and ceaseless activity." Feb 5, 2013 Seminar, Center for Complex Network Research, Northeastern University "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_

• 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	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
	Oct 23-26, 2019
Network Null Models Working Group, NIMBIOS	Oct 23-26, 2019 May 29-June 2, 2019
	Oct 23-26, 2019 May 29-June 2, 2019 March 16-17, 2018
Network Null Models Working Group, NIMBIOSDecision Processes in Networks, Triennial Choice Symposium	May 29-June 2, 2019
 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? Awards, Affiliations, Accreditations	May 29-June 2, 2019 March 16-17, 2018
 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? Awards, Affiliations, Accreditations Research & Innovation Office Faculty Fellow 	May 29-June 2, 2019 March 16-17, 2018
 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? Awards, Affiliations, Accreditations Research & Innovation Office Faculty Fellow Models of Infectious Disease Agent Study Network – Member 	May 29-June 2, 2019 March 16-17, 2018 2020 2020 - present
 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? Awards, Affiliations, Accreditations Research & Innovation Office Faculty Fellow Models of Infectious Disease Agent Study Network – Member Network Science Society – Member 	May 29-June 2, 2019 March 16-17, 2018 2020 2020 - present 2014 - present
 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? Awards, Affiliations, Accreditations Research & Innovation Office Faculty Fellow Models of Infectious Disease Agent Study Network – Member Network Science Society – Member American Mathematical Society – Member 	May 29-June 2, 2019 March 16-17, 2018 2020 2020 - present 2014 - present 2014 - present
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 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? Awards, Affiliations, Accreditations Research & Innovation Office Faculty Fellow 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 Genetic Epidemiology of Malaria – Best Poster 	May 29-June 2, 2019 March 16-17, 2018 2020 2020 - present 2014 - present 2014 - present 2013 - present 2008 - present June, 2018
 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? Awards, Affiliations, Accreditations Research & Innovation Office Faculty Fellow 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 Genetic Epidemiology of Malaria – Best Poster NIH "Protecting Human Research Participants" – certification 	May 29-June 2, 2019 March 16-17, 2018 2020 2020 - present 2014 - present 2014 - present 2013 - present 2008 - present June, 2018 June, 2016
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Postdocs

• Dr. Eun Lee, Computer Science

2020 - present

PhD Students	
Tzu-Chi Yen, Computer Science	2018 - present
K. Hunter Wapman, Computer Science	2019 - present
Erik Johnson, Applied Mathematics	2019 - present
Nicholas LaBerge, Computer Science	2019 - present
Ian van Buskirk, Computer Science	2019 - present
Kate Bubar, Applied Mathematics	2020 - present
Katherine Spoon, Computer Science	2020 - present
PhD Rotation Students (IQ Biology)	
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	2020 - present
Aaron Aaeng, M.S. Computer Science, Colorado	2019 - 2020
Marshall Y. Carpenter, M.S. Applied Math, Colorado	2012
(Co-adv: Juan G. Restrepo, NSF MCTP)	
Undergraduate Students	
Aloha Churchill, University of Colorado Boulder	2020 - present
Suchita Lulla, University of Colorado Boulder	2018 - present
Aparajithan Venkateswaran, University of Colorado Boulder, NSF REU	2018 - 2020
Mark Wilmes, Computer Science.	2019
Suyog Soti, University of Colorado Boulder	2018 - 2019
Katie Younglove, University of Colorado Boulder, NSF REU	2018 - 2019
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
High School Students	
 William McKinnon, High School Student, Santa Fe Institute 	2016
Kat Wicks, High School Student, Santa Fe Institute	2015 - 2016
Teaching	
University of Colorado Boulder	Roulder CO USA
CSCI 5352 (Network Analysis and Modeling)	Boulder, CO, USA Fall 2020
[new course] CSCI 2830 (Calculating Biological Quantities)	Fall 2020 Fall 2020
CSCI 5352 (Network Analysis and Modeling)	Fall 2019
CSCI 3332 (Network Analysis and Modeling) CSCI 4802/5802 (Data Science Team)	Fall 2019 Fall 2019
 CSCI 4802/5802 (Data Science Team) CSCI 4802/5802 (Data Science Team) 	Spring 2019
CSCI 4602/3602 (Data Science Team) CSCI 5352 (Network Analysis and Modeling)	Fall 2018
CSCI 3332 (Network Arralysis and Modernig) CSCI 3022 (Intro to Data Science with Probability and Statistics)	Fall 2018
CSCI 2022 (Intro to Data Science with Frobability and Statistics)	Carias 2010

Complex Networks Winter Workshop

• CSCI 3022 (Intro to Data Science with Probability and Statistics)

• [new course] CSCI 3022 (Intro to Data Science with Probability and Statistics)

Quebec City, Quebec

Spring 2018

Fall 2017

• Large-scale structures in networks: Hidden communities and latent hierarchies Dec 15, 2019

NetSci 2019 International Conference on Network Science

Burlington, VT, USA

• Large-scale structures in networks: Hidden communities and latent hierarchies May 27, 2019

Santa Fe Institute - Complex Systems Summer School

Santa Fe, NM, USA June 24-25, 2019

Networks & HierarchiesNetworks & Hierarchies

June 25-26, 2018

University of Michigan

Ann Arbor, MI, USA

• Comp. Soc. Sci. Workshop (Communities, hierarchies: large-scale network structure) Nov 10, 2017

Harvard School of Public Health

Boston, MA, USA

Lecturer – CB399 Introduction to Modeling Infectious Disease (networks)
 July 24 & 27, 2014

Kenya Medical Research Institute (KEMRI)

Kilifi, Kenya

• Lecturer – TDModNet Modeling Workshop (networks in genetics & epidemiology)

October 3, 2013

Boulder, CO, USA

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)

T 1: 4 4 ADDM 2250 C 1 1 HI (Mail variable Calculus)

Teaching Asst. – APPM 2350, Calculus III (Multivariable Calculus)
 Teaching Asst. – APPM 2360, Ordinary Differential Equations

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

Fall 2011 2009 - 2010

Fall 2009 Spring 2009

Spring 2012

Fall 2008

Summer 2008

Spring 2008

Fall 2007

Editorial and Referee Work

Guest Academic Editor

· PLOS Biology

Grant Review

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

Journal Review

- ACM Transactions on Knowledge Discovery from Data (TKDD)
- Europhysics Letters (EPL)
- IEEE Security and Privacy
- · Journal of Complex Networks
- · Journal of Infectious Diseases
- Journal of Machine Learning Research (JMLR)
- Journal of Statistical Mechanics: theory and experiment (JSTAT)
- Journal of the Association for Information Science and Technology (JASIST)
- Malaria Journal
- Methods in Ecology and Evolution
- Nature Scientific Reports
- Nature Microbiology
- 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)
- Science Advances
- Science Translational Medicine
- SIAM Journal on Mathematics of Data Science (SIMODS)
- Wellcome Open Research

Conferences

- Program Committee, Int'l Conf. on Computational Social Science (IC2S2 2017, 2018, 2019, 2020)
- Program Committee, NetSci 2017, 2019, 2020
- Program Committee, ICWSM Workshop: Beyond Online Data: Tackling Challenging Social Science Questions
- Program Committee, 9th Int'l Conf. on Complex Networks (CompleNet 18)
- 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 Serie	e (Organizer	or co-organizer)
Connerences,	WOLKSHODS,	SDEAKEL SELL	es (Organizer o	or co-organizer)

Comercines, workshops, speaker series (Organizer or co-organizer)	
Statistical Inference for Network Models - A Satellite Symposium of the NetSci Conference	ice.
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
Santa Fe, NM. Ongoing Santa Fe Institute talk series.	
Organizer	
• Applied Network Science at Longwood Seminar Series, at Harvard School of Public Health.	2014 - 2015
Boston, MA, monthly seminar for network research with biological,	
public health, or medical application.	
Conceived and organized with John Platig.	
• Harvard School of Public Health Infectious Disease Epidemiology Seminar Series	2014
Boston, MA	
Organized with William Hanage.	
Mathematics Research Community Workshop on Network Science	June 24-30, 2014
Snowbird, UT	
Assisting Aaron Clauset, Mason Porter, & David Kempe.	
• TDModNet Modeling Workshop (networks in genetics & epidemiology)	Oct 3, 2013
Kenya Medical Research Institute (KEMRI), Kilifi, Kenya.	
Organized with Caroline O. Buckee	
• Front Range Applied Mathematics Student Conference	March 14, 2009

Organized with Daniel N. Kaslovsky, Anne Dougherty, et al.	
SIAM Graduate Student Chapter Speaker Series	Spring 2009
University of Colorado Boulder.	
Co-organized with Daniel N. Kaslovsky.	
PhD Thesis Committees	
Aislyn Keyes, Ecology & Evolutionary Biology. Adv: Laura Dee	Expected 2023
Allison Morgan, Computer Science. Adv: Aaron Clauset	Expected 2021
Samantha Molnar, Computer Science. Adv: Elizabeth Bradley	Expected 2020
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
Indergraduate Thesis Committees	
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
nstitutional Committees	
Colorado, EMPOWERS Oversight Committee	2020 - present
Colorado, Computer Science Faculty Search Committee	2019 - 2020
Colorado, Interdisc. Quant. Biol. Program (IQBio), Academic Advising Committee	2018 - 2020
Colorado, BioFrontiers Institute, Council (Formerly called Task Force)	2017 - present
Colorado, Interdisc. Quant. Biol. Program (IQBio), Curriculum Committee	2017 - present
Colorado, Computer Science, Undergraduate Curriculum Committee	2018 - 2019
Colorado, BioFrontiers Institute, Social Committee (BioFunTiers)	2017 - 2018
Colorado, Interdisciplinary Quant. Biol. Program (IQBio), Grad. Admissions	2017 - 2018
Santa Fe Institute, Complex Systems Summer School Admissions	2016 - 2017
Santa Fe Institute, Omidyar Fellowship Review & Selection	2015 - 2016
Colorado, Office of Discrimination and Harassment Review	2010 - 2012
Colorado, SIAM Graduate Student Chapter	2008 - 2010
Dutreach	
"How do infectious disease models work?"	April 13, 2020
BioFrontiers Institute Community COVID-19 Session	<u>*</u> .
"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	
Santa 1 C mistitute	

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

University of Colorado Denver.

Faculty Sanity

Founder, Organizer

Daniel Larremore 11

Boulder, CO

2018 - present

March for Science - Santa Fe

Lead Organizer

April 22, 2017 **Santa Fe, NM**

Santa Fe, NM

New Mexico Corrections / Penitentiary of New Mexico

Volunteer math teacher and tutor

January 2016 - May 2017

Santa Fe Alliance for Science

Science fair judge

Santa Fe, NM 2015 - 2017

Greater University Service Foundation, Inc.

Director

Co-founder and Secretary

St. Louis, MO 2008 - present 2006 - 2008

The Boulder County AIDS Project

Volunteer math tutor; grocery packing and delivery.

Boulder, CO

2005 - 2011