

Maksim Kitsak

CONTACT INFORMATION	Northeastern University Physics Department & Network Science Institute 177 Huntington ave, #239 Boston, MA 02115 USA	<i>Voice:</i> +1 (857) 869-5102 <i>Fax:</i> +1 (617) 373-4385 <i>E-mail:</i> m.kitsak@neu.edu <i>Webpage:</i> web.northeastern.edu/mkitsak/
CITIZENSHIP	United States of America	
RESEARCH INTERESTS	I am generally interested in Network and Data Sciences, and Statistical Inference. My research is driven by problems in <i>Social Sciences</i> , <i>Cyber-Security</i> , <i>Biomedicine</i> , <i>Neuroscience</i> and <i>Civil Infrastructure</i> .	
GRANTS & FUNDING	Grants <ul style="list-style-type: none">• <i>Latent Structure and Dynamics of Big Data</i>, Key personnel, with D. Krioukov (PI, Northeastern University), \$900,000, National Science Foundation (2017-2020).• <i>Link Prediction and Community Inference in Networks using Latent Geometry</i>, co-PI, with D. Krioukov (PI, Northeastern University), \$300,000, Army Research Office (2017-2020).	
RELATED PROFESSIONAL EXPERIENCE	Delft University of Technology (TU Delft) , Delft, The Netherlands. Faculty of Electrical Engineering, Mathematics, & Computer Science Quantum & Computer Engineering Department, The Network Architectures & Services Group, <i>Assistant Professor (tenure track)</i> March, 2020 - Present Northeastern University, Network Science Institute , Boston, Massachusetts USA. <i>Associate Research Scientist</i> August, 2014 - February, 2020 <i>Postdoctoral Scientist</i> August, 2012 - July, 2014 Dana-Farber Cancer Institute, Center for Cancer Systems Biology (CCSB), Harvard Medical School , Boston, Massachusetts USA. <i>Visiting Postdoctoral Scientist</i> August, 2012 - September, 2015 Northeastern University , Department of Mathematics, Boston, Massachusetts USA. <i>Part-time Lecturer</i> September, 2014 - December, 2014 UC San Diego, The Cooperative Association for Internet Data Analysis (CAIDA) , La Jolla, California USA <i>Postdoctoral Scientist</i> August, 2009 - August, 2012 Boston University, Center for Polymer Studies , Boston, Massachusetts USA <i>Research Assistant</i> September, 2005 - July, 2009 Fraunhofer Institute IISB , Erlangen, Germany <i>Intern</i> April, 2003 - August, 2003 Photeon Technologies GmbH , Bregenz, Austria <i>Intern</i> July, 2002 - August, 2002	

EDUCATION

Boston University, Boston, Massachusetts USA

Ph.D., Physics, May 2009

- Thesis Topic: Organization of Complex Networks
- Advisor: Professor H. Eugene Stanley
- Area of Study: Complex Networks, Statistical Physics

M.A., Physics, February 2005

- Area of Study: Quantum Field Theory, Elementary Particle Physics
- GPA: 3.94/4.00

Belarusian State University, Minsk, Belarus

Specialist Diploma, Physics, June 2002

- With Honors in Physics
- Thesis Topic: Non-stationary 4 wave mixing in resonant media.
- Advisor: Professor Alexei. L. Tolstik
- Area of Study: Nonlinear Optics, Laser Physics and Spectroscopy
- GPA: 4.8/5.0

TEACHING

Course Instructor

- PHYS 5115, Quantum Mechanics, co-taught with D. Krioukov Northeastern University, Spring, 2020.
- PHYS 5115, Quantum Mechanics, co-taught with D. Krioukov Northeastern University, Fall, 2019.
- PHYS2305, Thermodynamics and Statistical Mechanics, co-taught with D. Krioukov Northeastern University, Spring, 2019.
- PHYS2305, Thermodynamics and Statistical Mechanics, co-taught with D. Krioukov Northeastern University, Spring, 2018.
- PHYS2305, Thermodynamics and Statistical Mechanics, co-taught with D. Krioukov Northeastern University, Spring, 2017.
- MATH1342, Calculus II for Sci. & Eng. Northeastern University, Fall, 2014.

Teaching Assistant

- PY105, Introductory Physics Boston University, Summer I, 2006.
- PY106, Introductory Physics Boston University, Summer II, 2005.
- PY106, Introductory Physics Boston University, Spring, 2005.
- PY355, Methods of Theoretical Physics Boston University, Spring, 2005.
- PY105, Introductory Physics Boston University, Fall, 2004.
- PY313, Elementary Modern Physics Boston University, Summer I, 2004.
- PY106, Introductory Physics Boston University, Spring, 2004.
- PY105, Introductory Physics Boston University, Fall, 2003.

ADVISING

Interns and Graduate Students

- Chiara Orsini (co-supervised with D. Krioukov) UC San Diego
currently Software Development Engineer at Amazon
- Susan Ghiassian (co-supervised with A.-L. Barabási) Northeastern University
currently Director of Network Medicine and Systems Biology at Scipher Medicine
- William Cunningham (co-supervised with D. Krioukov) Northeastern University
currently Postdoctoral Fellow at the Perimeter Institute
- Maksim Piskunov (co-supervised with D. Krioukov) Northeastern University
- Ivan Voitalov (co-supervised with D. Krioukov) Northeastern University

Postdoctoral Fellows

- Rodrigo Aldecoa (co-mentored with D. Krioukov) Northeastern University
currently Senior Data Scientist at The Shortest Track
- Alexander Ganin (co-mentored with I. Linkov) U.S. Army Corps of Engineers
- Jason Bassett (co-mentored with I. Linkov) U.S. Army Corps of Engineers

RESEARCH

Summary: 24 peer-reviewed publications, citations: 3,895 (by Google Scholar)

Representative Publications

1. A. Ganin, M. Kitsak, D. Marchese, J. M. Keisler, T. Seager, and I. Linkov, *Resilience and Efficiency in Transportation Networks*, *Science Advances* **3** 12 e1701079 (2017).
PRESS: NU, National Public Radio, Australia Policy Online, WTOP, Laboratory Equipment, Tech Xplore, CITY LAB.
2. M. Kitsak, A. Elmokashfi, S. Havlin, and D. Krioukov, *Long-Range Correlations and Memory in the Dynamics of Internet Interdomain Routing*, *PLOS ONE* **10**(11) e0141481 (2015).
3. J. Menche, A. Sharma, M. Kitsak, S. Ghiassian, M. Vidal, J. Loscalzo, and A.-L. Barabási, *Uncovering Disease-Disease Relationships Through the Incomplete Interactome*, *Science* **347** 6224 (2015).
PRESS: MedicalXpress, Mathesia, Celiac.com, Northeastern University
4. F. Papadopolous, M. Kitsak, M. Serrano, M. Boguñá, and D. Krioukov *Popularity Versus Similarity in Growing Networks*, *Nature* **489** 537 (2012).
PRESS: UCSD, SDSC, Nature, Nature Physics, PhysOrg, ScienceDaily, AMS, Le Scienze
5. M. Kitsak, L. K. Gallos, S. Havlin and H. A. Makse, *Identification of Influential Spreaders in Complex Networks*, *Nature Physics* **6** 888 (2010).
PRESS: Technology Review, ScienceDaily, FastCompany, Science for SEO, We-media, NSF

Journal Articles in Submission and Preparation

1. M. Kitsak, *Latent Geometry for Complementarity-Driven Networks*, (in preparation) (2020).
2. M. Kitsak, A. Ganin, H. Cui, D. Eisenberg, A. Elmokashfi, D. Korkin, D. Alderson, and I. Linkov, *Reconstructing Communication Paths in Incomplete Networks*, (in preparation) (2020).
3. M. Kitsak, I. Voitalov, and D. Krioukov, *Link Prediction with Hyperbolic Geometry*, *Phys. Rev. X*. (under review) (2020), arXiv:1903.08810

Refereed Journal Articles

1. A. Ganin, A. Mersky, A. Jin, M. Kitsak, J. Keisler, and I. Linkov, *Resilience for Intelligent Transportation Systems (ITS)*, *Transportation Research Part C* **100** 318 (2019).
2. D. Eisenberg, M. Kitsak, A. Ganin, I. Linkov and D. Alderson, *Network Foundation for Command and Control (C2) Systems: Literature Review*, *IEEE Access* **6** 68782 (2018).

3. [M. Kitsak](#), A. Ganin, D. Eisenberg, I. Linkov, and D. Alderson, *Stability of a Giant Connected Component in a Complex Network*, Phys. Rev. E **97** 012309 (2018).
4. A. Ganin, [M. Kitsak](#), D. Marchese, J. M. Keisler, T. Seager, and I. Linkov, *Resilience and Efficiency in Transportation Networks*, Science Advances **3** 12 e1701079 (2017).
PRESS: NU, National Public Radio, Australia Policy Online, WTOP, Laboratory Equipment, Tech Xplore, CITY LAB.
5. [M. Kitsak](#), F. Papadopolous, and D. Krioukov, *Latent Geometry of Bipartite Networks*, Phys. Rev. E **95** 032309 (2017).
6. [M. Kitsak](#), A. Sharma, J. Menche, E. Guney, S. Ghiassian, and A.-L. Barabási, *Tissue Specificity of Human Disease Module*, Nature Scientific Reports **6** 35241 (2016).
7. [M. Kitsak](#), A. Elmokashfi, S. Havlin, and D. Krioukov, *Long-Range Correlations and Memory in the Dynamics of Internet Interdomain Routing*, PLOS ONE **10**(11) e0141481 (2015).
8. J. Menche, A. Sharma, [M. Kitsak](#), S. Ghiassian, M. Vidal, J. Loscalzo, and A.-L. Barabási, *Uncovering Disease-Disease Relationships Through the Incomplete Interactome*, Science **347** 6224 (2015).
PRESS: MedicalXpress, Mathesia, Celiac.com, Northeastern University
9. A. Sharma, J. Menche, C. Huang, T. Ort, X. Zhou, [M. Kitsak](#), N. Sahni, D. Thibault, L. Voung, F. Guo, N. Gulbahce, F. Baribaud, J. Tocker, R. Dobrin, E. Barnathan, H. Liu, R. A. Panettieri Jr. , S. Ghiassian, N. Gulbahce, R. A. Panettieri Jr., K. G. Tantisira, W. Qiu, B. A. Raby, E. K. Silverman, M. Vidal, S. T. Weiss and A.-L. Barabási, *A disease module in the interactome explains disease heterogeneity, drug response and captures novel pathways and genes*, Human Molecular Genetics **24** 3005 (2014).
10. M. Boguna, [M. Kitsak](#), and D. Krioukov, *Cosmological Networks*, New Journal of Physics **16** 093031 (2014).
11. D. Krioukov, [M. Kitsak](#), R.S. Sinkovits, D. Rideout, D. Meyer, and M. Boguñá, *Network Cosmology*, Nature Scientific Reports **2** 793 (2012).
PRESS: UCSD, SDSC, Space, Time, The Register, CBS, Huffington Post, Huffington PostUK, PopularScience, LiveScience, Slashdot, RobotsNet, PhysOrg, ScienceDaily, TGDaily, DigitalJournal..
12. F. Papadopolous, [M. Kitsak](#), M. Serrano, M. Boguñá, and D. Krioukov *Popularity Versus Similarity in Growing Networks*, Nature **489** 537 (2012).
PRESS: UCSD, SDSC, Nature, Nature Physics, PhysOrg, ScienceDaily, AMS, Le Scienze
13. [M. Kitsak](#), and D. Krioukov, *Hidden Variables in Bipartite Networks*, Phys. Rev. E **84** 026114 (2011).
14. D. Krioukov, F. Papadopolous, [M. Kitsak](#), A. Vahdat, and M. Boguñá, *Hyperbolic Geometry of Complex Networks*, Phys. Rev. E **82** 036106 (2010).
15. [M. Kitsak](#), L. K. Gallos, S. Havlin and H. A. Makse, *Identification of Influential Spreaders in Complex Networks*, Nature Physics **6** 888 (2010).
PRESS: Technology Review, ScienceDaily, FastCompany, Science for SEO, We-media, NSF

16. M. Kitsak, M. Riccaboni, S. Havlin, F. Pammolli and H. E. Stanley, *Structure of Business Firm Networks and Scale-Free Models*, Phys. Rev. E **81** 036117 (2010).
17. J. Shao, S. V. Buldyrev, R. Cohen, M. Kitsak, S. Havlin and H. E. Stanley, *Fractal Boundaries of Complex Networks*, Europhys. Lett. **84** 48004 (2008).
18. M. A. Kitsak and A. I. Kitsak, *Spatial Coherence of the Stokes Component of Stimulated Raman Scattering Excited in a Long Multimode Fibre*, Quantum Electronics **38**(7) 681 (2008).
19. M. A. Kitsak and A. I. Kitsak, *Cross Modulation Method of Transformation of the Spatial Coherence of Pulsed Laser Radiation in a Nonlinear Medium*, Quantum Electronics **38**(4) 365 (2008).
20. M. Kitsak, S. Havlin, G. Paul, M. Riccaboni, F. Pammolli, and H. E. Stanley, *Betweenness Centrality of Fractal and Non-Fractal Scale-Free Model Networks and Tests on Real Networks*, Phys. Rev. E **75** 056115 (2007).
21. M. A. Kitsak and A. I. Kitsak, *Efficiency of Nonstationary Transformation of the Spatial Coherence of Pulsed Laser Radiation in a Multimode Optical Fibre upon Self-Phase Modulation*, Quantum Electronics **37**(8) 770 (2007).
22. A. I. Kitsak and M. A. Kitsak, *Transformation of the Spatial Coherence of Pulsed Laser Radiation Transmitted in the Nonlinear Regime through a Multimode Graded-index Fibre*, Quantum Electronics **36**(1) 27 (2006).
23. O. Ormachea, M.A. Kitsak and A.L. Tolstik, *Multiwave Mixing in Complex Molecular Media and Dynamic Modes of Light-Wave Transformation*, Nonlinear Phenom. Complex Syst. **6**(3) 762 (2003).
24. M.A. Kitsak *Nonstationary Four Wave Mixing in Resonant Media Under Conditions of Effective Parametrical Energy Transfer*, Journal of Optical Technology **69** 7-458 (2002).

Proceedings

1. M.A. Kitsak and A.I. Kitsak, *Studies of the Angular Frequency Spectrum of Raman Scattering Stokes Component Radiation Excited in an Extensive Multimode Waveguide*, Proc. SPIE **7008** 70081O (2008).
2. M.A. Kitsak and A.I. Kitsak, *The Efficiency of the Non-Stationary Process of Transformation of Spatial Coherence of Pulse Laser Radiation in a multimode Waveguide at the Phase Self-Modulation*, Proc. SPIE **7008** 70081N (2008).
3. M.A. Kitsak and A.I. Kitsak, *The Efficiency of Spatial Coherency Nonlinear Transformation of Pulse Laser Radiation in a Multimode Waveguide at Different Statistical Models of Incoming Radiation*, Proc. SPIE **6729** 67291Z (2007).
4. M.A. Kitsak and A.I. Kitsak, *The Analysis of Spatial Modes of the Raman Scattering Stokes Component Radiation Excited in an Extensive Multimode Waveguide*, Proc. SPIE **6729** 67291Y (2007).
5. A.I. Kitsak and M.A. Kitsak, *Transformation of Coherent and Angular Characteristics of Pulse Radiation at Self-Modulation in Non-Homogeneous Multimode Waveguides*, Proc. SPIE **6254** 625418 (2006).

Books and Book Chapters

- I. Häring, G. Sansavini, E. Bellini, N. Martyn, T. Kovalenko, [M. Kitsak](#), G. Vogelbacher, K. Ross, U. Bergerhausen, K. Barker, and I. Linkov *Towards a Generic Resilience Management, Quantification and Development Process: General Definitions, Requirements, Methods, Techniques and Measures, and Case Studies*, chapter of *Resilience and Risk*. (I. Linkov, J. M. Palma-Oliveira [eds]) Springer, Dordrecht, 2017, pp 21-80.

PATENTS

- A.S. Rubanov, A.I. Kitsak, N.V. Karelin, M.A. Kitsak and V. M. Suchek, *The method of the spatial coherency transformation of the pulse laser radiation and its realization*, Belarus Patent Number **8325**, Issued 8/30/06, priority from 11/21/02.
- A.I. Kitsak, M.A. Kitsak, N.V.Karelin and V.M. Suchek, *The method of the spatial coherency reduction of the pulse laser radiation and the method of realization*, Belarus Patent Number **12107**, Issued 12/30/08, priority from 04/20/07.

TALKS

Invited Talks

- *Latent Geometry Enables Hyperbolic and Geo-Hyperbolic Routing Schemes*, guest lecture at SimulaMet, Oslo, Norway, May, 2019.
- *Complex Systems through the Lens of Network Geometry*, colloquium talk at the University of Pittsburgh, Pittsburgh, PA, January, 2019.
- *Latent Geometry in Networked Systems: theory, inference and applications*, seminar at the University at Buffalo, Buffalo, NY, December, 2018.
- *Resilience and Efficiency in Transportation Networks*, public talk at DC Mayor's office, Washington, DC, March, 2018.
- *Latent Geometry of Networked Systems: Theory, Inference and Applications*, talk at the Network Science Seminar talk at UC Davis, Davis, CA, February, 2018.
- *Latent Geometry of Networked Systems: Theory and Applications*, colloquium talk at Yeshiva University, New York, NY, February 2018.
- *Hyperbolic Geometry of Networked Systems*, seminar talk at the Queen Mary University of London, London, UK, December, 2017.
- *Hyperbolic Geometry of Protein-Protein Interaction Networks*, given at the NetMed17 workshop, Indianapolis, IN, June, 2017.
- *Latent Geometry in Networked Systems: from Interdomain Routing to Human Diseases*, colloquium talk given at the Rensselaer Polytechnic Institute, Troy, NY, February, 2017.
- *Geometry of Networked Systems*, colloquium talk given at the UC Merced, Merced, CA, April, 2016.
- *Latent Geometry in Technological, Social and Biological Systems*, colloquium talk given at the Indiana University, Bloomington, IN, March, 2015.
- *The Latent Geometry Formalism and its Applications to Social, Technological and Biological Systems*, colloquium talk given at the Northwestern University, Evanston, IL, January, 2014.
- *Network Geometry in 3+ Dimensions*, given at the Network Geometry Workshop, UC San Diego, La Jolla, CA, August, 2013.
- *Do Bipartite Network Have Metric Structure?*, given at the UC Human Complexity Seminar Series, UC San Diego, La Jolla, CA, May, 2011.
- *Identification of Influential Spreaders in Complex Networks*, given at the workshop on Bridging Psychology and Neurophysiology, University of North Texas, Denton, TX, March, 2011.
- *Epidemics in Social Networks*, colloquium talk given at the CSE, University of Nevada, Reno, NV, December, 2010.

Contributed Talks

- *Link Prediction with Hyperbolic Geometry*, given at the NetSci 2019 conference, Burlington, VT, May, 2018.
- *Latent Structure and Dynamics of Big Data*, given at the NSF PI meeting, Washington, DC, July, 2018.
- *Stability of a Giant Connected Component in a Complex Network*, given at the CompleNet 2018 conference, Boston, MA, March, 2018.
- *Predicting Protein Interactions with Latent Geometry*, given at the NetSci 2017 conference, Indianapolis, IN, June, 2017.
- *Long-Range Correlations and Memory in the Dynamics of Internet Routing*, given at the NetSci 2016 conference, Seoul, June, 2016.
- *Lorentz-Invariant Maximum Entropy Network Ensembles*, given at the CompleNet 2016 workshop, March, 2016.
- *Resilience of Networked Systems Under Epidemic Spreading*, given at the World Congress on Risk 2015, Singapore, July, 2015.
- *Operational Resilience and Critical Functionality in Networked Systems: Concepts, Design and Analysis*, given at the World Congress on Risk 2015, Singapore, July, 2015.
- *Tissue Specificity of Human Disease*, given at the NetSci 2014 conference, Berkeley, CA, USA, June, 2014.
- *Popularity vs Similarity in Growing Complex Networks*, given at the Network Frontier Workshop, Evanston, IL, USA, December, 2013.
- *Network Geometry*, given at the NetSci 2013 conference, Technical University of Denmark, Copenhagen, Denmark, June, 2013.
- *Geometry of Complex Networks*, given at the Center for Cancer Systems Biology Retreat conference, Rockport, MA, USA, September, 2012.
- *Popularity vs Similarity in Growing Complex Networks*, given at the NetSci 2012 conference, Evanston, IL, USA, June, 2012.
- *Do bipartite networks have metric structure?*, given at the APS March Meeting, Boston, MA, February, 2012.
- *Do bipartite networks have metric structure?*, given at the NetSci 2011 conference, Budapest, Hungary, June, 2011.
- *Identification of Influential Spreaders in Complex Networks*, given at the Future Internet and Society: A Complex Systems Perspective conference, Maratea, Italy, October, 2010.
- *Metric Structure of Bipartite Networks*, given at the CCNR, Northeastern University, MA, USA, May, 2010
- *Identification of Influential Spreaders in Complex Networks*, given at the NetSci 2010 conference, Boston, MA, USA, May, 2010.
- *Leadership in Business Firm Networks*, given at the 100th Statistical Mechanics Conference, Rutgers University, NJ, USA, December, 2008
- *K-shell Structure of Complex Networks*, given at the Tenth Annual Greater Boston Area Statistical Mechanics Meeting, Waltham, MA, USA, October, 2008
- *Organization of Complex Networks*, given at the NetSci 08 conference, Norwich, UK, June, 2008.
- *K-shell Structure of Large-Scale Complex Networks*, given at the CCNR, Northeastern University, MA, USA, April, 2008.
- *Transport properties of Fractal and Non-Fractal Scale-Free Networks*, given at the NetSci 07 conference, Queens, NY, USA, May, 2007.
- *Self-Similarity of Complex Networks*, given at Boston University, MA, USA, March, 2007.
- *Non-stationary 4-wave mixing in resonant media* given at the 2nd International Conference of Young Scientists and Specialists *Optics-2001*, St. Petersburg, Russian Federation, October, 2001.

Funding Agency Grant Reviewer and Panelist

National Science Foundation (NSF)
Israel Science Foundation

Editorial Board Member

Nature Scientific Reports

Journal Reviewer

Nature Machine Intelligence, Nature Human Behaviour, Nature Communications, Nature Scientific Reports, IEEE Transactions on Network Science and Engineering, Internet Mathematics, PLOS ONE, Computational Social Networks, Physical Review X, Physical Review Letters, Physical Review E, Journal of Statistical Physics, Chaos, Europhysics Letters, New Journal of Physics, Physica A, Journal of Complex Networks

Seminar and Workshop Organizer

- Focus session on Network Theory at the 2019 March APS Meeting
- Network Geometry and Topology Workshop (GeoTopoNets 2016), satellite to the NetSci 2016 conference in Seoul, Korea, June, 2016
- The Joint Network Seminar, Boston University and Northeastern University, MA, USA March, 2008 - May, 2009; September 2012 - Present
- CAIDA/UCY Workshop on Network Geometry, (co-organizer) University of Cyprus, Cyprus, January 2011
- Information Theory and Applications Workshop (ITA) 2010, (co-organizer) UC San Diego, CA, USA, January - February, 2010
- UCSD Complex Network Seminar (DANCES), UC San Diego, CA, USA October, 2010 - Present
- The Network Seminar, Boston University, MA, USA, March, 2007 - February, 2008

Program Committee Member

- NetSci 2019, The Flagship Conference on Network Science in Burlington, VT, USA, May, 2019
- Complex Networks 2018, The 7th International Workshop on Complex Networks and their Applications in Cambridge, UK, December, 2018
- CompleNet'18, International Conference on Complex Networks in Boston, MA, USA, March, 2018
- Macfang BCN 2017, Mapping Complexity Foundations and Applications of Network Geometry in Barcelona, Spain, November, 2017
- Complex Networks 2017, The 6th International Workshop on Complex Networks and their Applications in Lyon, France, November, 2017
- NetSci-X 2017, International School and Conference on Network Science, Tel Aviv, Israel, January, 2017
- Complex Networks 2016, The 5th International Workshop on Complex Networks and their Applications in Milan, Italy, November, 2016

REFERENCES

- Professor Albert-László Barabási (postdoctoral mentor),
Distinguished Professor of Physics,
Director of the Center for Complex Network Research,
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- Professor H. Eugene Stanley (Ph.D. advisor),
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