

Alessandro Vespignani

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Professional Experience

- Sternberg Distinguished University Professor, Northeastern University, USA** **2011 – present**
Joint appointments at the Physics department, College of Computer and Information Sciences, Bouve' College of Health Science. Director of the Network Science Institute.
- J.H. Rudy Professor, School Of Informatics and Computing, Indiana University, USA** **2008 – 2011**
Associate Director of the Pervasive Technology Institute; Director of the Center for Complex Networks and Systems.
- Professor, School of Informatics and Computing, Indiana University, USA** **2004 – 2008**
Affiliate Biocomplexity Institute. & Cognitive Science program.
- Senior Researcher 1st class, National Council for Scientific Research (CNRS), France** **2002 – 2004**
Core Faculty, Laboratoire de Physique Theorique, University of Paris-Sud, France.
- Senior Researcher, International Center for Theoretical Physics, Trieste Italy** **1997 – 2002**
The United Nations Educational, Scientific and Cultural Organization (UNESCO)
- Marie Curie Post Doctoral fellow, Instituut Lorentz, Leiden University, The Netherlands** **1995 – 1997**
Supervisor: Prof. J.M.J. van Leeuwen.
- Research Associate, Mathematics Department, Yale University, USA** **1994 – 1995**
Supervisor: Prof. B.B. Mandelbrot.

Education

- Ph.D. in Theoretical Physics, University of Rome “La Sapienza”, Rome, Italy** **1994**
- Laurea cum Laude in Physics, University of Rome “La Sapienza”, Rome, Italy** **1990**

Short Bio

Dr. Vespignani is currently Sternberg Family Distinguished University Professor at Northeastern University where he is the founding director of the Northeastern Network Science Institute. Prof. Vespignani received his undergraduate degree and Ph.D., both in physics, from the University of Rome “La Sapienza”. He completed his postdoctoral research at Yale University and Leiden University. Prof. Vespignani worked at the International Center for Theoretical Physics (UNESCO) in Trieste and at the University of Paris-Sud in France as a member of the National Council for Scientific Research (CNRS). From 2004 to 2011, Vespignani was J.H.Rudy Professor of Informatics and Computing at Indiana University and the founding Director of the Center for Complex Networks and Systems Research and Associate Director of the Pervasive Technology Institute. Vespignani is elected fellow of the American Physical Society, member of the Academy of Europe, and fellow of the Institute for Quantitative Social Sciences at Harvard University. Recently Vespignani's research activity focuses on the data-driven computational modeling of epidemic and spreading phenomena and the study of biological, social and technological networks.

Leadership Experience

- Founding Director of the Network Science PhD program, Northeastern University 2013 – 2016
- Founding Editor in Chief of EPJ Data Science journal, Nature- Springer Publisher 2012 – present
- Founding Director of the Network Science Institute, Northeastern University 2015 – present
- President Elected of the Complex Systems Society 2012 – 2015
- Founding Director Of the Center for Complex Networks and Systems, Indiana University 2008 – 2011
- Associate Director, Pervasive Technology Institute, Indiana University 2008 – 2011
- Advisory Group, FET-ICT directorate of the European Commission 2007 – 2009

Honors and awards

- Doctorate Honoris Causa, Delft Technical University, The Netherlands (January 13, 2017)
- 2016 Aspen Institute Italia Award for scientific research and collaboration between Italy and the United States for the research on the “Spatiotemporal spread of the 2014 outbreak of Ebola virus disease in Liberia and the effectiveness of non-pharmaceutical intervention: a computational modelling analysis.”
- International Society for disease surveillance 2016 Awards for Outstanding Research Articles in Biosurveillance, “Impact on Field” Category for the paper “The biosurveillance analytics resource directory (BARD): Facilitating the use of epidemiological models for infectious disease surveillance”.
- 2015 Northeastern University Excellence in Research and Creative Activity Award.
- Elected member of the Academy of Europe, section Physics and Engineering (2011).
- Sternberg Family endowed chair, Northeastern University (2011).
- Fellow of the American Physical Society (2008).
- James H. Rudy endowed chair Indiana University (2008).
- Top cited article 2005-2010 award by the Theoretical Computer Science Journal, Elsevier.
- Congress of the United States briefing. ““Harnessing Complex Networks to Solve the Nation’s Grand Challenges”, Washington, DC, Sept. 10, 2013.
- James Martin 21st Century School Seminar, Oxford University (February 25, 2010).
- Organizational Leadership Award, Global Information Technology Management Association, June 2007.
- Invited lecture National Academy of Engineering, 2005 U.S. Frontiers of Engineering Symposium.
- Top Five Finalist in the scientist category for the Wired Magazine Rave Award, San Francisco, 2004.
- Marie Curie Fellow (1995-1997), the Human and Capital mobility program of the European Economic Community.
- Italian Ministry of Research and Education, three years Ph.D. fellowship (1991-1993). The fellowship has been awarded after a national competition.

Memberships and Boards

- Advisory Board of the Indiana University Network Science Institute, Indiana University 2015 – present
- Advisory Board, WHO Collaborating Center on Complexity Science for Health Systems 2013 – present
- Scientific Advisory Board, Institute for Scientific Interchange Foundation, Italy 2015 – present
- Area Editor, Network Science, Cambridge University Press 2012 – present
- Editorial Board, Nature Scientific Reports, Nature publishing Group 2012 – present
- Editorial board of PLOS One, Public Library of Science 2010 – present
- Editorial Board of Journal of Computational Sciences, Elsevier 2009 – 2013
- Editorial Board of Mathematical Biosciences, , Elsevier 2010 – 2012
- Editorial Board of Journal of Statistical Mechanics, IOP London, UK 2002 – 2011
- Editorial Board, of European Physical Journal B, Springer 2006 – 2011
- Advisory Board, Lisbon Epidemiology Consortium, Portugal 2007 – 2010
- Advisory Board, CABDyN center, Oxford University, UK. 2009 – 2011

Software and online resources

- Network Workbench: A Large-Scale Network Analysis, Modeling and Visualization Toolkit for Biomedical, Social Science and Physics Research. <http://nwb.slis.indiana.edu/index.html>
- LaNet-vi provides images of large scale networks on a two-dimensional layout. <http://xavier.informatics.indiana.edu/lanet-vi/>
- GLEaMviz.org resource website on the Global Epidemic and Mobility modeler that integrates sociodemographic and population mobility data to provide a computational platform for the large-scale spreading of infectious diseases. www.gleamviz.org
- EpiC: A Computational Infrastructure for Epidemics Research. This project will the design, implementation, deployment, and maintenance of a computational infrastructure for epidemics research, called the Epidemics Cyberinfrastructure. <http://epic.slis.indiana.edu/>
- The Epidemic Rapid Transit Map visualization was part of “The Art of Networks II” exhibition that was on view between March 26 - May 31, 2015 at the New York Hall of Science (<http://www.mobs-lab.org/epi-rail.html>).
- The Twitter of Babel: Mapping World Languages through Microblogging Platforms (<http://www.twitterofbabel.org/>)’
- Model based scenarios of the spatio-temporal spreading and impact of Zika virus (<http://www.zika-model.org/>).

Selected Conference Organization and Program committees

1. Organizing committee, Complex Systems Society, 2016 Conference on Complex Systems Satellite Workshop, Amsterdam, The Netherlands, September 20, 2016, “Digital Epidemiology and Surveillance.”
2. Organizing Committee, EE² - EPIWORK/EPIFOR 2nd International workshop- Facing the challenge of infectious diseases, Courmayeur, Italy, January 18 - 20, 2012.
3. Program leader of the year-long SAMSI program on Complex Networks, Statistical and Applied Mathematical Sciences Institute (SAMSI), Research Triangle Park, North Carolina, 2010-2011.

4. Advisory Committee NetSci 2010, The International School and Conference on Network Science, Boston, 10-14 May, 2010.
5. Organizing Committee Workshop - Frontiers in the computational modeling of disease spreading, International Conference of Computational Sciences ICCS2010 Amsterdam (The Netherlands), May 31 - June 2, 2010.
6. Chair of the network track at the European Conference on Complex Systems ECCS'07, Dresden, Germany, October 1-5, 2007.
7. Organizing committee of the workshop "Random and dynamics graphs and Networks", Institute for pure and applied mathematics (IPAM), University of California Los Angeles, May 7-11, 2007.
8. Chair of the network track at the European Conference on Complex Systems ECCS'06, Oxford UK, September 25-29, 2006.
9. Program Committee: ISMA Workshop on the Internet Topology (WIT), supported by CAIDA and the NSF, CAIDA, San Diego, May 10-12, 2006.
10. Chair of the Focus session on Social Networks at the American Physical Society March Meeting in Baltimore, March 23-17, 2006.
11. Organizing committee of International Workshop and Conference on Network Science *NetSci-06*, Bloomington IN, USA, May16-25, 2006.
12. Organizing committee of *ALIFE-X*, 10th International Conference on the Simulation and Synthesis of Living Systems, Bloomington, June 3-7, 2006.
13. Program Committee: the "*European conference on complex systems*", Paris France 14-18 November 2005.
14. Organizing committee of the School and workshop on "*The structure and function of complex networks*", Trieste, Italy on May 16- 28 2005.
15. Chair of the Focus session on Complex networks at the American Physical Society March Meeting in Los Angeles, March 21-25 2005.
16. Program Committee: "*Workshop on combinatorial and algorithmic aspects of networking*", Banff International Research Station (BIRS), Canada, August 5-7, 2004.
17. Program Committee: "*Third Workshop on Algorithms and Models for the Web-Graph (WAW 2004)*", Rome, Italy, October 16, 2004.
18. Program Committee: "*Fluctuations and Noise in Biological, Biophysical and Biomed Systems*", conference within the symposium "Fluctuations and Noise" sponsored by SPIE, May 25-28, 2004.
19. Scientific committee of the international conference: "*Frontier in science: a non-linear world*", Pavia, Italy September 8-12, 2003.
20. Organizing committee of the international conference: "*Growing Networks and Graphs in Statistical Physics, Finance, Biology and Social Systems* ", Rome, Italy, September 1- 5, 2003.
21. Scientific Director of the International Kas School of Physics "*New Trends in Statistical Physics*", Kas, Turkey, September 26 - October 5, 2002.
22. Organizing committee of the research workshop: "*Statistical mechanics of plastic deformation*", ICTP-Trieste, Italy, 4-7 March 2002.
23. Organizing committee for the 6th *Italian Meeting on Statistical Physics* (Parma, May, 2001), with the sponsorship of GNSM, INFM and ISI Foundation.

24. Director of the research workshop: ``*Self-organized criticality and phase transitions in driven systems*'', ICTP-Trieste, Italy 1-4 March 2000.
25. Organizing committee of the 4th *Italian Meeting on Statistical Physics* (Parma, June 23-25, 1999), with the sponsorship of GNSM, INFM and ISI Foundation.
26. Organizing committee for the 1st *Italian Meeting on Statistical Physics* (Parma, June 24-26, 1996), with the sponsorship of GNSM, INFM and ISI Foundation.

Selected Invited talks and Lectures

Along with the following major speaking engagement I have given a large number of seminars and colloquium at major institution and university Nationally and Internationally.

1. World Health Organization, Rationale for a Vaccine efficacy trial during Public Health Emergencies: Integrating Infectious Disease Modelling, March 24 -25, 2016, Chamonix-Mont-Blanc, France, "Sharing Early Zika Modeling Experience."
2. Instituut-Lorentz, Colloquium Ehrenfestii 2016, University of Leiden, The Netherlands, March 23, 2016, "Modeling of epidemics: from the physics of reaction-diffusion processes to infectious disease forecast."
3. Vermont Complex Systems Center, Mini-symposium on Predicting Pandemics, University of Vermont, Burlington, April 4, 2016, "Epidemic modeling does more than forecast."
4. International Union of Pure and Applied Physics, Satellite Meeting of Statphys26: Complex Networks: From Theory to Interdisciplinary Applications, Marseilles, France, July 11-13, 2016, "From the physics of reaction-diffusion processes in complex networks to infectious disease forecast."
5. Leiden Complex Networks Network, Leiden Networks Day, Universiteit Leiden, The Netherlands, September 23, 2016, "From spreading processes in networks to infectious disease forecast."
6. London School of Tropical Medicine, "*Spatial data and modeling of Ebola*" London, England, February 16-18, 2015 (invited).
7. NETMOB 2015 conference "*Human mobility and the spreading of infectious disease*", MIT Media Lab, Cambridge, MA April 8, 2015 (Invited Keynote).
8. MIT Distinguished Speaker Series "*Modeling and forecast of contagion phenomena in the age of big data*" Cambridge, MA May 4, 2015 (invited).
9. WIRED Magazine Fest "*Digital crumbs: studying the future of social systems (and beyond) through Big Data*" Milan, Italy May 23-24, 2015 (invited).
10. NETSCI 2015 International Conference "*Data-driven Modeling of Contagion Processes in Networks*" Zaragoza, Spain June 2-7, 2015 (invited Opening keynote).
11. International Conference on Computational Social Science "*Computational epidemiology does more than forecast*" Helsinki, Finland (June 8-11, 2015) (invited Keynote).
12. Mathematical & Computational Epidemiology of Infectious Diseases "*Computational epidemiology does more than forecast*" Erice, Italy September 1-5, 2015 (invited Keynote).
13. "From nowcasting to forecasting the evolution of the next pandemic by using digital surveillance", Next Generation Surveillance for the Next Pandemic, Santa-Fe Institute, Santa Fe, NM, May 19, 2014. (Invited Talk).
14. "Modeling and Forecast of Network-Driven Contagion Processes", American Society for Microbiology Conference for Undergraduate Educators (ASMCUE), Danvers MA, May 15-18, 2014 (Invited Talk)
15. CompleNet 2014, Bologna, Italy, March 12-14, 2014 (keynote speaker)
16. Workshop on Dynamic Networks 2013, Buenos Aires, Argentina November 5-7th, 2013.
17. Public Health Sciences Grand Rounds Rollins School of Public Health, Emory University, October 18, 2013.
18. 5th Workshop on information in Networks, NYU, October 4-5 2013 (plenary speaker)

19. ECCS 2013, Barcelona, Spain, September 16-20, 2013.
20. Digital Surveillance Meeting, CDC, Atlanta, August 6 (2013)
21. ARS'13 International Workshop "Networks in space and time: Models, Data collection and Applications", Rome Italy, June 20-22, 2013. (keynote speaker)
22. IWSOS, 7th International Workshop on Self-Organizing Systems, Palma de Mallorca, Spain, May 9-10, 2013. (keynote speaker)
23. APS March Meeting, Invited Session: Statistical Physics for Systemic Risk and Infrastructural Interdependencies, Baltimore, Maryland, March 18-22, 2013.
24. AAAS 2013 annual Meeting, Predictability: from physical to Data Sciences, Boston, February 16, 2013.
25. FuturICT @ MediaLab, Boston, February 13-14, 2013.
26. 5th Annual Global Empowerment Meeting (GEM12), Harvard University, Boston, October 24 - 25, 2012.
27. NICO Distinguished Speaker Series, Northwestern University, Evanston, October 10 - 11, 2012.
28. Workshop on Information in Networks (WIN) 2011, New York City, September 28 - 29, 2012.
29. International Meeting "Complex Systems Analysis: Advancing Health System Policy Design and Planning", Rockefeller Foundation, Bellagio Center, Italy, September 24 - 28, 2012.
30. SCOR Pandemic Risk Conference, Paris, July 9-10, 2012.
31. International Workshop on Agent-Based Models and Complex Techno-Social Systems, ETH Zurich (Switzerland), July 2-4, 2012 (keynote speaker)
32. 39th General Assembly of the Geneva Association, Washington D.C. June 6-9, 2012.
33. NSF workshop: Workshop on Complexity Science Applied to Coupled Infrastructure Systems (InfraPlex), Martha's Vineyard, June 3-4, 2012.
34. Workshop Evolution and Spread of Diseases, Mathematical Biosciences Institute, Ohio State University, 19-23 March 2012.
35. Workshop "Frontiers in multiscale computational modeling for zoonotic epidemics", Kansas City, October 10-12, 2011.
36. Second International Business Complexity & the Global Leader Conference, Suffolk University, Boston, Massachusetts, October 17-19, 2011 (keynote speaker).
37. Workshop "Data Science and Epidemiology", Center for Infectious Disease Dynamics (CIDDD) at Penn State University, October 6 and 7, 2011.
38. Workshop on Information in Networks (WIN) 2011, New York City, September 30th and October 1st, 2011.
39. NetSci 2011, The International School and Conference on Network Science, Budapest, 6-10 June, 2011.
40. First Global Symposium on Health Systems Research, Session on complex systems, Montreaux, Switzerland November 16-19, 2010.
41. Connecting the Dots Symposium, Harvard University, Cambridge, MA, October 22, 2010 (keynote speaker).
42. Influenza H1N1 modeling working group meeting, European Center for Disease Control ECDC, Stockholm, 19 October 2010.
43. ESF-Cost Conference on Future Internet and Society: A Complex Systems Perspective, Acquafredda di Maratea, Italy, October 4-9, 2010 (keynote speaker).
44. WIN 2010 Workshop on Information in Networks, New York University, New York, September 25-26, 2010.
45. Socially Coupled Systems & Informatics-Science, Computing and Decision Making in a Complex Interdependent World 2010 Conference, Old Town Alexandria, VA, July 12-14, 2010.
46. Workshop on Cascading Events in Complex Financial Networks, The Fidelity Center for Applied Complexity May 11, 2010, Boston, MA (keynote speaker).
47. Symposium "The Physics of Global Catastrophes and Countermeasures", American Physical Society (APS) March Meeting, Portland, OR, March 14-17, 2010.

48. Symposium "Human Mobility: the Statistical Physics of When, Where, and How" American Physical Society (APS) March Meeting, Portland, OR, March 14-17, 2010.
49. International Workshop on Nonlinear Dynamics of Networks, Center for Scientific Computation & Mathematical Modeling (CSCAMM), University of Maryland, College Park, April 7, 2010.
50. International Conference: Networks, a framework for cross disciplinary applications, Zaragoza, Spain, February 3-6, 2010 (keynote speaker).
51. Symposium on Frontiers in Network Science, Advances in Complex Networks, Berlin, Germany, September 28-30, 2009 (keynote speaker).
52. NIH-Roadmap Methodology & Technology Grantee Meeting, Bethesda MD, Oct. 8, 2009.
53. Joint Statistical Meeting, Statistics: from evidence to Policy, Washington DC, USA, August 1-6, 2009.
54. NetSci 2009, International Conference on Network Science, Venice, Italy June 29- July 3, 2009 (Keynote speaker).
55. CCSS, International Workshop on coping with crises in complex socio-economic systems, ETH Zurich, Switzerland June 8-12, 2009 (Plenary speaker).
56. Complex 2009, International conference on complex systems, Shanghai, China February 23-29 (2009) (Keynote speaker)
57. NICO Complexity Conference 2008, Northwestern Institute on Complex Systems, Northwestern University, Evanston, IL, USA May 19-21, 2008.
58. Complex Systems and Networks, ONCE-CS, UNESCO Conference, Sovata, Romania, July 15-20 2007.
59. STATPHYS 23, the 23rd International Conference on Statistical Physics of the International Union for Pure and Applied Physics (IUPAP), Genova, Italy, July 9-13, 2007 (Plenary speaker).
60. Complex Networks: from Biology to Information Technology: Satellite of Statphys 23, Cagliari, Italy, July 2-6 2007.
61. 7th International Conference on Computational Science (ICCS 2007), Beijing, China, May 28-30, 2007 (Keynote speaker).
62. NetSci 2007 International conference, New York Hall of Science, New York, NY, USA, May 22-25, 2007.
63. March Meeting of the American Physical Society, focus session on Social Dynamics and Scaling, Denver, Colorado, USA, March 5-9, 2007.
64. Conference on Complex systems: from physics to biology and the social sciences, Center for theoretical and computational Physics, Lisbon, Portugal. November 22-25, 2006.
65. Europe's information Society Conference IST 2006, Helsinki, Finland, November 21-23, 2006 (Keynote speaker).
66. European Conference on Complex Systems (ECCS'06), Oxford, UK. September 25-29, 2006 (Plenary speaker).
67. Workshop on New directions in complex systems, (NDCOS 2006), Istanbul, Turkey September 3-9, 2006 (Opening speaker).
68. Workshop on Optimization in Complex Networks, Center for Non-linear Studies, Los Alamos National laboratory, New Mexico, USA, June 19-22, 2006.
69. Symposium on "Law in the age of Networks: Implications of network science for legal analysis, Illinois University, March 10, 2006.
70. International Workshop and Seminar on Dynamics on Complex Networks and Applications, MPIPKS Dresden, Germany, February 6 – March 3, 2006 (Opening speaker).
71. 19th Annual Conference on Neural Information Processing Systems NIPS05, Vancouver BC, Canada, December 5-8, 2005 (Keynote speaker).
72. Conference on "Complex Networks and Random Graphs", Physikzentrum Bad Honnef, Germany, 11-13 July, 2005.
73. Symposium on Biological and Social Networks, Physik seit Einstein, 69th Annual meeting of the German Physical Society, Berlin, Germany, 4-9 March 2005.
74. Santa Fe Institute Research Collaboration Program on "Robustness of multiple overlapping networks", Santa Fe Institute, New Mexico, USA, 25-29 April 2005.

75. March Meeting of the American Physical Society, focus session on Complex Networks, Los Angeles, USA, March 21-25 2005.
76. Workshop "Understanding and preventing infectious diseases", University of British Columbia and Canadian Center for Disease Control, Vancouver, Canada, January 19-22, 2005.
77. MiDAS consultation Group on Social Networks, Brookings Institution, Washington DC, USA 5-6 January 2005.
78. International Workshop on "Adaptive and Resilient Computing Security (ARCS04)", Santa Fe Institute, New Mexico, USA, November 3-4, 2004 (keynote speaker).
79. International Conference on "Complex Systems across Disciplines", Northwestern University, Chicago, Illinois, USA, October 29-30, 2004.
80. International Conference "Science of Complex Networks: from Biology to the Internet and WWW", University of Aveiro, Aveiro, Portugal, 29 August - 2 September 2004.
81. Thematic Institute on Complex Systems "Networks and risks", Collegium Budapest, Institute for Advanced Study, Budapest, Hungary, May 31 - July 6, 2004 (Keynote speaker).
82. Max Planck Institute International workshop "Non-equilibrium statistical physics in low dimensions" Dresden, Germany, September 22- October 10, 2003.
83. Royal Institute for International Affairs conference, "Complexity, networks and resilience: interdependence and security in the 21st century", London, UK, September 17-18 2003.
84. Los Alamos National Laboratory 23rd Annual Conference, "Networks: Structure, Dynamics and Function", Santa Fe, New Mexico, USA, May 12 - 16, 2003.
85. 7th Granada Seminar on Computational and Statistical Physics, "Modeling of Complex Systems" Granada, Spain, September 2-7, 2002.
86. 15th International symposium on Mathematical Theory of Networks and Systems University of Notre Dame, South Bend, Indiana, USA, August 12-16 2002.
87. XVIII Sitges Conference on: "Statistical Mechanics of Complex Networks" Sitges, Barcelona, Spain, 10-14 June 2002.
88. March Meeting of the American Physical Society, focus session on Complex networks, 2002, Indianapolis, USA, March 18 - 22, 2002.
89. 6th APCTP Winter School "Scaling and Phase Transitions in Complex Networks and Non-equilibrium Systems" Pohang, Korea, Feb. 18-21, 2002.
90. Fourth Meeting on Fractals and Self-organization, ESPCI, Paris, France, October 25 - 26, 2001.
91. International Workshop on "Scaling and Disordered Systems", Paris, France, April 13-14, 2000.
92. International Conference on Statistical Physics Calcutta III, Bose Center for Basic Sciences, Calcutta, India, January 4-9, 1999.
93. VIII Swiss-Italian workshop on Computational Material Science, Cagliari-Italy, September 18-22, 1998.
94. Third International Conference on Renormalization Group "RG 96", Dubna, Russia, August 26-31, 1996.
95. International Network Program on Classical Statistical Mechanics with Special Emphasis on Nonlinear, Non-equilibrium and Disordered Systems, Torino, Italy October 22 - November 12, 1995.

Summer Schools and PhD programs (invited lecturer)

96. The 2015 Summer Institute in Statistics and Modeling in Infectious Diseases (SISMID), University of Washington in Seattle, Seattle, July 6-22, 2015.
97. The 2014 Summer Institute in Statistics and Modeling in Infectious Diseases (SISMID), University of Washington in Seattle, Seattle, July 7-23 2014
98. The 2013 Summer Institute in Statistics and Modeling in Infectious Diseases (SISMID), University of Washington in Seattle, Seattle July 16-19, 2013.
99. Master's class: From Data to Decision, British Columbia Center for Disease Control, Vancouver, May 30-June 1st, 2012.

100. 2012 Summer Institute in Statistics and Modeling in Infectious Diseases (SISMID), University of Washington in Seattle, Washington July 15-19, 2012.
101. 2011 Summer Institute in Statistics and Modeling in Infectious Diseases (SISMID) University of Washington in Seattle, Washington, June 13-29, 2011.
102. 2010 Summer Institute in Statistics and Modeling in Infectious Diseases (SISMID) University of Washington in Seattle, Washington, June 14-30, 2010.
103. Les Houches Summer School on “Complex Systems”, Les Houches Physics School, France, July 3-28, 2006.
104. Isaac Newton Institute School Non-Equilibrium Dynamics of Interacting Particle Systems, Newton Institute, Cambridge UK, March 27 – April 7, 2006.
105. ESAS Master in Methods for *Management of Complex Systems* at the University of Pavia, Italy 17-18 May 2005.
106. International School “*From functional genomics to molecular networks*”, Evry, France, May 30th-June 4th, 2005.
107. International School “*Models for Complex Systems in Human and Social Sciences*”, Ecole Normale Supérieure de Lyon, Lyon, France, July 19-31, 2004.
108. *Winter School on Complex Systems*, Ecole Normale Supérieure de Lyon, Lyon, France, December, 2002.

Impact and Media

At the time of October 2016 Vespignani’s publications have received more than **37,000 citations** in Google Scholar (**h-index=92**). Three papers have been placed in the top 1% within their field according to the Essential Science Indicators and the number of citations received in ISI Thomson’s Web of Science database. Vespignani’s works are featured in several science and popular science books. Among those:

- Critical Mass by P. Ball, Random House Group, 2004;
- Six Degrees by D. J. Watts, Norton Publisher, 2003;
- Nexus by M. Buchanan, Norton Publisher, 2002;
- Linked by A.L. Barabasi, Perseus Publishing, 2002;
- Ubiquity, by M. Buchanan, Weidenfeld and Nicholson Pub. 2000;
- Branches, by P. Ball, Oxford University Press, 2009.
- Design for Information, I. Meirelles, Rockport Publishers, 2013

Vespignani’s research activities have been featured in TV and Film documentaries:

- “Connected” By A. Talas (ABC, BBC, Discovery channel, 2008).
- “Anatomy of a Pandemic” CBS special series 2009.
- National Geographic series “Breakthrough” 2015
<http://breakthrough.nationalgeographic.com/pandemics/gleam>
- PBS newshour with Miles O’Brien, “Using the power of prediction to halt Ebola in its tracks”
<http://www.pbs.org/newshour/bb/using-power-prediction-halt-ebola-tracks/>

Recent Press Coverage (a complete list is available at <http://www.mobs-lab.org/media.html>)

- The Conversation | Zika virus: Only a few small outbreaks likely to occur in the continental US, September 2016
- WBUR | Boston-Based Researchers Model The Future Of The Zika Epidemic, August 2016
- Reuters | New research finds low risk of Zika virus at Olympics, June 2016
- NPR | Does attending the Olympics in Rio put the world in danger of Zika?, June 2016
- Wired | See how diseases spread in these mesmerizing graphics, April 2015
- Boston Globe | Forecasts may soon predict flu patterns, February 2015
- Le Monde | Epidémies : des prédictions entre science et politique, January 2015
- Boston Globe | New England researchers help shape the fight on Ebola, November 2014
- Politico | Travel Ban, Visa Ban- Either Way, It Won't Work, October 2014
- Science Magazine | Congressional Ebola debate invokes PLOS paper, October 2014
- Wall Street Journal | Using Air Traffic Data to Predict Ebola’s Spread, October 2014
- Vox | Where Is Ebola Likely To Go Next?, October 2014

- Focus Italy | Here's how the forecast epidemic of Ebola, September 2014
- Washington Post | Ebola outbreak in the U.S.? Probably not happening, September 2014
- New York Times | U.S. Scientists See Long Fight Against Ebola, September 2014
- NPR | A Frightening Curve: How Fast Is The Ebola Outbreak Growing?, September 2014
- Quanta Magazine | The Mathematical Shape of Things to Come, October 2013
- Daily Mail | Study reveals how a bioterrorism attack could spread..., July 2013
- The Atlantic | Cities Might Not Be as Prepared as They Think for a Bioterrorism Attack, July 2013
- Science | News&Analysis: Network Science at Center of Surveillance Dispute, June 2013
- Scientific American | Idol Tweets: Mapping the Social Space with Twitter, May 2013
- The Atlantic - Cities | The World's Leading Science Cities, May 2013
- Wired | The Cities of Science, April 2013
- MIT Technology Review | How Strong Social Ties Hinder the Spread of Rumours, March 2013
- Wired UK | Strong social ties impede spread of rumours, March 2013
- The Economist | Dr Seldon I presume, February 2012
- Science News | When Networks networks, September 2012
- Boston Globe | Tweets helped team predict 'American Idol' winner, May 2012
- INSolution research Blog | Random acts of the Twitterverse, April 2012
- Vanguardia | Exhiben con matemáticas a Twitter, April 2012
- PhysOrg | Whether tweets live or die depends more on network..., April 2012
- The Atlantic | What Fuels the Most Influential Tweets?, April 2012
- BrainYard News | Science Probes Why Tweets Go Viral, April 2012
- Wired Italia | Contagio, December 2011
- Scientific American | The Machine that would predict the future, December 2011
- CNN | Social networking 'utopia' isn't coming, June 2011
- ABC | Dunbar's number rules the Twitterverse, June 2011
- Le Monde | Sur les réseaux sociaux, difficile d'avoir plus de 200 amis, June 2011
- Sud Ouest | La taille du cerveau limite le nombre d'amis sur les réseaux sociaux, June 2011
- Time Magazine, Techland | It's Science: You Can Only Really Follow 150 People on Twitter, June 2011
- MSNBC | Human brain limits Twitter friends, June 2011
- La Capital | Las redes sociales y la amistad, June 2011
- CorpComms | Online relationships mirror real life, May 2011
- Psychology Today | Even With Social Networking, Do Our Brains Limit Our Number Of Friends?, May 2011
- Slashdot | Human Brain Places Limit On Twitter Friends, May 2011
- PCWorld | Study: Friends Hard to Keep Up with on Twitter, Facebook, May 2011
- El Comercio | El cerebro humano solo puede reconocer hasta 150 amigos, May 2011
- TechnologyReview.com | Human Brain Limits Twitter Friends To 150, May 2011
- Le Scienze | Dai virus virtuali a quelli reali, February 2010

Publications

More than 150 publications in major peer reviewed international scientific journals and conference proceedings. Among those: Science, Nature, the Proceedings of the National Academy of Sciences USA, Review of Modern Physics and Physical Review Letters. Vespignani is author of several book chapters and editor of four books and special journal issues. Vespignani has also authored two monographic volumes: "Evolution and structure of the Internet: a statistical physics approach", together with Romualdo Pastor-Satorras, published by Cambridge University Press (2004, paperback reprint 2007) and translated and published in France by Belin Editeur (2004); "Dynamical Processes on Complex Networks", with A. Barrat and M. Barthelemy, published by Cambridge University Press (2008) [in its 4th reprint in 2011; published in kindle format in 2012 and in paperback edition in 2013].

Books and Monographs

1. A. Barrat, M. Barthelemy and **A. Vespignani**
"Dynamical processes on Complex Networks"
 Cambridge University Press (2008). 4th reprint in 2012.
 Paperback publication by Cambridge University Press in 2013.

2. R. Pastor-Satorras and **A. Vespignani**,
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Vespignani is also writing often for major newspaper and media outlets.