

**Elena N. Naumova, Ph.D.**

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E-mail: [elena.naumova@tufts.edu](mailto:elena.naumova@tufts.edu)Website: <http://informid.tufts.edu/>**Current Position**

Academic Dean for Faculty, Director of the Office of Faculty Affairs, The Gerald J. and Dorothy R. Friedman School of Nutrition Science and Policy, Tufts University, Boston, MA	2015	present
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**Education**

Executive Leadership in Academic Technology and Engineering (ELATE), Drexel University, PA, USA <i>Topic:</i> Study Abroad Programs for Fostering International Research and Education (SAPFIRE).	2013	2014
Post-doctoral Training. Baumann State Technical University, Moscow, USSR <i>Topic:</i> Artificial intelligence and expert systems in clinical immunological studies.	1989	
Ph.D. Applied Mathematics/Statistics. Novosibirsk State Technical University, USSR <i>Topic:</i> Mathematical modeling and data processing in immune system studies.	1983	1988
M.S. Statistics ( <i>cum laude</i> ). Novosibirsk State Technical University, USSR <i>Topic:</i> The use of minimum $\chi^2$ parameter estimation in approximation of the empirical data by the Johnson's system of distribution via nonlinear optimization.	1977	1982

**Academic and Administrative Appointments**

Professor	2015	present
Adjunct Professor The Gerald J. and Dorothy R. Friedman School of Nutrition Science and Policy, Tufts University (150 Harrison Avenue, Boston, MA 02111)	2006	2014
Adjunct Professor of Mathematics Department of Mathematics, School of Arts and Sciences, Tufts University (503 Boston Ave, Medford, MA 02155)	2014	present
Adjunct Professor	2015	present
Associate Dean for Research	2011	2014
Professor Department of Civil and Environmental Engineering, Tufts University School of Engineering (200 College Ave, Medford, MA 02155)	2010	2014
Adjunct Professor Department of Gastrointestinal Sciences, Christian Medical College (IDA Scudder Rd, Vellore, Tamil Nadu 632004, India)	2009	present
Visiting Professor Center for Discrete Mathematics and Theoretical Computer Science (DIMACS), Rutgers State University of New Jersey (96 Frelinghuysen Road, Piscataway, NJ)	2009	2010
Adjunct Professor	2010	present
Professor	2008	2010
Associate Professor	2003	2008
Assistant Professor Department of Public Health and Community Medicine, Tufts University School of Medicine (136 Harrison Avenue, Boston, MA 02111)	1997	2003
Research Assistant Center for Environmental Epidemiology, Medical College of Wisconsin (8701 W. Watertown Plank Rd. Milwaukee, WI 53226)	1993	1997
Deputy Director Department of Information and Analysis, Institute of Pathology of Blood Circulation, Ministry of Health (15 Rechkunovskaja Street, Novosibirsk 630055, Russia)	1991	1992
Head	1988	1990
Staff Investigator	1986	1987
Research Assistant Mathematical Modeling and Statistical Processing Laboratory, Institute of Clinical Immunology, Siberian Division of the USSR Academy of Medical Science	1982	1985

(14 Yadrentsevskaja Street, Novosibirsk 630091, USSR)

**Professional Experience****National Federal Demonstration Partnership (FDP)**

Washington, DC, USA

Tufts University Faculty Representative (January, 2015; January 2016) 2014 present

**World Health Organization (WHO)**

Bonn, Germany

Preceptor for Tufts Graduate Internship program 2013 2015

Technical Advisor for the Environment and Health Information System (ENHIS) 2012 2015

Contributor to the Technical Report on School environment: policies and current status 2015

Participant of the 3<sup>rd</sup> UN World Congress on Disaster Risk Reduction, Sendai, Japan 2015

Organizer and Panelist for the WHO-Tufts Sponsored Event on Environmental Negotiations at the UN Summit Rio+20. Rio-de-Janeiro, Brazil 2012

**Intergovernmental Group on Earth Observations (GEO)**

Geneva, Switzerland

3rd GEO Health and Environment Community of Practice Workshop (Panel Discussant) 2011

**Tufts Initiative for the Forecasting and Modeling of Infectious Diseases (InForMID)**

Founder and Director 2006 present

**Tufts Institute of the Environment (TIE)**

Director 2008 2012

Organizer and Moderator, Workshop on Climate Change and Health in the Arctic 2010

Organizer, Forum on Climate Change, Climate Justice, and International Women's Health 2009

Program Faculty 1998 present

**Tufts-New England Medical Center and Tufts University Health Sciences**

Institutional Review Board (IRB) Member 2005 2010

**Honors and Awards**Coauthored an article chosen for the cover of *Phil Trans Roy Soc B* (issue 370.1665) 2015

Faculty-in-Residence Fellowship Tufts European Center in Talloires, France 2014

Special Mention for Outstanding Faculty Contribution to Graduate Studies at the Graduate School of 2013

Arts and Sciences and School of Engineering, Tufts University

Tisch College Faculty Fellowship, Tufts University 2013

Recipient of the John Wiley Best Poster Award, The International Environmetrics Society 2012

Recipient of the Milton O. and Natalie V. Zucker Prize, Tufts University School of Medicine 2010

Aging and Rural Health Research Award Honorable Mentioned, Gerontological Health Section, 2008

American Public Health Association (APHA)

Coauthored an article chosen for the cover of *Emerging Infectious Diseases* 2003

Ross Aging Initiative Award, Tufts University 2001

Certificate of Appreciation, Graduate Programs in Public Health, Tufts School of Medicine 1999

Cyclic Vomiting Syndrome Association USA/Canada Award 1998

Baumann State Technical University Scholarship, Moscow, USSR 1989

First Prize for Innovation in Statistical Processing and Software in Medical Applications, USSR 1987

Professional Excellence Award, Institute of Clinical Immunology, Siberian Division of the Academy of 1986

Medical Sciences, USSR

All-USSR Competition of Master and Bachelor of Science Attestation Work Award Winner 1983

Student Science Conference Honorable Mention, NSTU, Novosibirsk, USSR 1982

**International and Governmental Commission Assignments****Federal Review Panel Member**

NSF "Smart and Connected Health" (SCH) Program Review Committee 2016

NIAID U19 "Modeling Immunity for Biodefense" Review Committee 2014

NIAID U19 "Omics: Modeling Infectious Disease" Review Committee 2013

NSF "Review Panel "Smart Health and Wellness" (SHW) Program Review Committee 2012

NIDA N01 "Data and Statistics Center for the NIDA Clinical Trials Network" Review Panel 2009

NIAID P01 "B Cells in Autoimmune Disease" Review Committee 2009

CDC Dissertation Proposal Special Emphasis Review Panel 2007

NIAID Research Centers Special Emphasis Review Panel 2006

NIAID Cooperative Research Center Review Committee 2005

NIDA Grant Proposal Review Committee 2005

EPA Grant Proposal Review Committee 2004

NIAID SBIR/STTR Grant Proposal Review Committee 2002

Grant Proposal Review Committee for the Civilian Research &amp; Development Foundation 2000

(CRDF) and the Basic Research and Higher Education (BRHE) Governing Council

**International Research Organization Reviewer**

Ministry of Earth Sciences, Grant Reviewer (India)	2015	
Foundation for Innovation Fund, Multidisciplinary Assessment Committee (Ottawa, Canada)	2015	
Kuwait Foundation for the Advancement of Sciences (Kuwait)	2013	
The Netherlands Organization for Scientific Research, Division of Innovational Research Incentives Scheme, Earth and Life Sciences: VENI Grant (Amsterdam, The Netherlands)	2012	
UN GEO Secretariat, Section "Earth Observations in Decision Support Projects" (Geneva, Switzerland)	2010	
Ministry of Health, Water Quality Science Division "Guidelines for Canadian Drinking Water Quality" (Vancouver, Canada)	2010	
Institute on Science for Global Policy, "Strategic Roadmap on Emerging and Persistent Infectious Diseases"	2009	
Health Canada Grant Proposal Review Committee (Ottawa, Canada)	2007	
UK Medical Research Counsel (London, UK)	2007	

**Editorial Activities**

Frontiers in Environmental Informatics (Nature Publishing Group), Review Editor	2015	present
Environmental Health Perspectives (NIEHS), Editorial Board Member	2011	present
Journal of Public Health Policy (Nature Publishing Group), Statistical Editor	2004	present
Self/Nonself: Immune Recognition and Signaling (Landes Bioscience), Editorial Board Member	2009	2012
Wiley, Taylor & Francis, Springer, Book Proposal Reviewer		
Reviewer for JAMA, Obesity Research, Environmental Health Perspectives, Asthma, Public Health Reports, AJPH, Journal of Epidemiology and Community Health, Journal of Water and Health, Environmental Research, Circulation, Journal of Biometeorology, EcoHealth, PLOS ONE, PLOS Medicine, BMC Public Health, BMC Environmental Health, Pediatrics, Scientific Reports		

**Professional Memberships and Activities****International Statistical Institute (ISI)**

Organizer and Invited Speaker for Short Course " <i>Modern Time Series Methodology for Modeling, Surveillance and Forecasting of Environmentally-driven Infections</i> ". The 60th International Statistical Institute World Statistics Congress. July 23-31, 2015. Rio de Janeiro, Brazil	2015	
Elected Member	2013	present
Invited Speaker for the ISI Symposium on " <i>Methodology of seasonality assessment: application to waterborne infections</i> " Dublin, Ireland	2011	

**The International Environmetrics Society (TIES)**

Member of the 25 <sup>th</sup> TIES Annual Conference Scientific Planning Committee. Dubai, UAE	2015	
Member of the 24 <sup>th</sup> TIES Annual Conference Scientific Planning Committee. Guangzhou, China	2014	
Chair of the TIES Awards Committee	2014	present
Chair of the Abdel El-Shaarawi Young Researcher's Award Committee	2013	2014
Keynote Speaker for the 22 <sup>nd</sup> TIES Annual Conference. Hyderabad, India	2012	
Annual Conference Participant (2000: Sheffield, UK; 2001: Portland, OR USA; 2002: Genoa, Italy; 2003: Johannesburg, South Africa; 2004: Portland, ME USA; 2012: Hyderabad, India; 2013: Anchorage, AL USA; 2014: Guangzhou, China; 2015: Dubai, UEA)		
Member	1997	present

**American Statistical Association (ASA)**

Organizer and Speaker, Invited Paper Session "Modern Methods for Modeling and Forecasting of Infectious Diseases: From Visualization to Random Networks and Social Media"	2014	
Section on Statistics in Epidemiology. Joint Statistical Meetings, Boston, MA		
Organizer and Invited Speaker, Special Topic Contributed Paper Session "Statistical Graphics" Joint Statistical Meetings, Atlanta, GA	2001	
Organizer and Chair, Special Topic Contributed Paper Session "Statistical Modeling of Waterborne Infectious Outbreaks" Joint Statistical Meetings, Indianapolis, IL	2000	
Annual Conference Participant (1999: Baltimore, MD; 2000: Indianapolis, IN; 2001: Atlanta, GA; 2005: Minneapolis, MN; 2014: Boston, MA)	1999	2014
Boston Chapter ASA Planning Committee Member	1998	
Member (1993-2009, 2010-present)	1993	present

**International Indian Statistical Association (IISA)**

Invited Speaker at the 50 <sup>th</sup> Jubilee of the CMC Department of Biostatistics. Vellore, India	2013	
Invited Speaker at the annual meeting of the IISA: Statistics, Science, and Society: New Challenges and Opportunities. Chennai, India	2013	
Keynote Speaker at the International Conference on Statistics for Epidemiology. Pala, India	2012	
Member	2012	present

**Statistical Society of Canada (SSC)**

Invited speaker at the International Conference on “ <i>Statistical framework for a waterborne infectious outbreak detection, description and prediction.</i> ” Hamilton, Canada	2002	
<a href="#">International Society for Photogrammetry and Remote Sensing (ISPRS)</a>		
Invited speaker at the ISPRS Conference, Arlington, VA	2013	
Participant GEOSS Workshop: “Using Earth Observation for Health” on “ <i>Assessing the effects of air pollution on human health using remote sensing.</i> ” Washington, DC	2009	
Plenary Speaker at the International Symposium on “Remote Sensing of the Environment.” San Jose, Costa Rica	2007	
<a href="#">Massachusetts State Laboratory Institute (SLI)</a>		
Regional Workshop on Waterborne Infections and Climate Variability Organizer	2003	
Communicable Disease Surveillance Advisory Committee Member	2003	present
<a href="#">International Society for Diseases Surveillance (ISDS)</a>		
Panelist for the ISDS Roundtable discussion	2014	
Panelist for the ISDS Webinar: “Seasonal Synchronization of Influenza”	2010	
Member of the External Partners Committee	2005	
Member of the ISDS Conference Planning Committee. Boston, USA	2004	
Conference Participant (2004: Boston MA; 2005: Seattle WA; 2014: Philadelphia, PA)		
<a href="#">American Public Health Association (APHA)</a>		
Organizer and Invited Speaker of the Symposium “Waterborne Diseases: Seasonality and Environmental Associations” at the 137 <sup>th</sup> Annual APHA Meetings, Philadelphia, PA	2009	
Annual Conference Participant (2000, 2006, 2013: Boston MA; 2004, 2007, 2011: Washington, DC; 2008: San Diego, CA; 2009: Philadelphia, PA; 2010: Denver, CO)		
Member	2000	present
<a href="#">The International Society for Environmental Epidemiology (ISEE)</a>		
Annual Conference Participant (1998, 2000, 2006, 2013: Boston MA; 2004, 2007, 2011: Washington, DC; 2008: San Diego, CA; 2009: Philadelphia, PA; 2010: Denver, CO)		
Member	1998	2010
Russian Society of Immunologists	1985	1990

### University Committee Assignments and Administrative Services

<a href="#">Tufts University The Gerald J. and Dorothy R. Friedman School of Nutrition Science and Policy</a>		
Office of Faculty Affairs (Director)	2015	present
Appointment, Tenure and Promotion Committee (ATP) ( <i>ex officio</i> )	2015	present
Faculty Search Committees (Chair or <i>ex officio</i> )	2015	present
Strategic Planning Committee (Member)	2015	present
<a href="#">Tufts University School of Engineering</a>		
School of Engineering Dean Search Committee (Member)	2014	2015
Tufts World Health Day (Organizer)	2013	2014
Tufts International Programs Committee (Member)	2014	2015
Tufts Faculty Research Activity Committee (FRAC) ( <i>ex officio</i> )	2012	2014
Tufts FRSFA Committee ( <i>ex officio</i> )	2012	2014
Environmental Health Faculty Search Committee (Member)	2011	2012
<a href="#">Tufts University School of Medicine</a>		
Graduate Programs of Public Health		
Ian MacNeill Award for Excellence in Data Analysis		
Committee Member	2010	present
Founder and Chair	2005	2010
Epidemiology and Biostatistics Concentration (Co-leader)	2001	2005
Promotion Committee (Member)	2001	2005
Faculty Senate		
Task Force on Mentoring, Promotion and Tenure (Member)	2005	2007
Salary Committee (Member)	2001	2003
Member	2001	2005
Charlton Poster Competition (Judge)	2004	2005
<a href="#">Tufts University</a>		
University-wide Committee on Core Facilities (Member)	2015	present
Thematic Area Working Group on Computational and Quantitative Skills and Methods (Editorial Sub-committee Chair)	2014	2015
Research and Graduate Program Council (Member)	2013	present
Tufts Institute for Global Leadership Steering Committee (Member)	2013	present
Strategic Planning Committee on Globalization (Member)	2012	2013
Individual Development Plan Committee (Member)	2012	2014
Committee on the Conflict of Interest in Research (Member)	2012	2013
Thematic Area Working Group on Infectious Diseases (Member)	2011	present

Tufts Global Health Council (Member)	2011	2014
Scientific Visualization Competition Committee (Member and Judge)	2011	2013
University Coordinating Council on Global Health & Environment (Chair)	2006	2007
Geographic Information System Poster Competition (Judge)	2002	2011
University Geographic Information System Faculty Advisory Committee (Member)	2000	2003

## University-wide Research Activities, Training Programs and Workshops

### Tufts University Research Days

Tufts Research Day on Data Science: Lightning Talk Presenter: <i>Virtual Cohorts and Big Data Analytics in Epidemiology</i>	2014	
Tufts Research Day on Tufts Institute for Innovation. Lightning Talk Presenter: <i>Environmental Epidemiology, Infectious Diseases and Global Health</i>	2014	
Tufts Research Day on Sustainability. Lightning Talk Presenter: <i>The Use of Novel Information Technologies for Global Disease Surveillance</i>	2011	
Tufts Research Day on Global Health and Infectious Disease (Moderator)	2009	
Tufts Research Day on Shining a Light on Environmental Scholarship (Planning Committee member and poster presenter)	2006	
Tufts Research Day on Infectious Disease and Pathogens (Participant)	2005	
Tufts University Spring Symposium <i>Health Care Issues for an Aging Population</i> for the Mathew and Brenda B. Ross Initiative on Aging	2002	
Award Recipient Presentation: <i>Cryptosporidiosis in the elderly in Massachusetts</i>		

### Tufts Environmental Literacy Institute (TELI) Workshops

One Health: Contextual Content on Water and Sanitation (Invited Speaker)	2013	
Communication and Environmental Studies (Participant)	2012	
Climate Change and Climate Justice (Participant)	2008	

### Tufts Academic Leadership Development (ALD) Program

Participant on the Workshop: <i>Giving and Receiving Constructive Feedback: How to Provide Learners with Useful Feedback while Receiving Useful Feedback on your Teaching</i>	2011	
Participant on the Workshop: <i>Team-based Teaching and Learning</i>	2011	
Member	2009	present

## Graduate and post-graduate mentorship

### NIH-sponsored Research Training Program

(Advisory Group Member)

Fogarty Global Health Innovation Training Program D43	2013	present
Fogarty Global Infectious Disease and Research Training Program "Multidisciplinary Research Training in Enteric Infections"	2008	present

### Workshops on Advanced Topics in Biostatistics at the Christian Medical College, Vellore, India

(Organizer and Lecturer)

<i>Developing an Analytical Plan for Complex Data Analysis</i>	2014	
<i>Data Analysis, Visualization, And Communication With Excel And Tableau</i>	2013	
<i>Multiple Time Series Analysis: Data, Models, and Graphs</i>	2012	
<i>Time Series Analysis in Epidemiology</i>	2011	
<i>Longitudinal Data Analysis</i>	2010	
<i>Statistical Principles of Assessing Associations</i>	2009	
<i>Analysis of Time Series Data in Epidemiology</i>	2008	

## Teaching Responsibilities

### Tufts University School of Engineering

CEE 194: Global Environmental Datasets (Course Co-Director)	2013	present
CEE 194: Environmental Informatics (Course Director)	2011	present
Biostatistics (Guest Lecturer; Course Director – Mark Woodin)	2015	
Epidemiology (Guest Lecturer; Course Director – David Gute)	2011	

### Tufts University Cumming School of Veterinary Sciences, MS in Conservation Medicine

VET 589: Project Management and Communication (Course Co-Director)	2011	present
VET 588: Research Skills II (Course Co-Director)	2011	2012
VET 587: Research Skills I (Course Co-Director)	2011	2012

### Tufts University-wide Interdisciplinary Seminar: "Toward a Deeper Understanding of Global Health: Interdisciplinary Approaches to the Health of People, Animals and the Environment"

(Co-organizer and Lecturer)	2008	2011
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### Tufts Interdisciplinary Graduate Program on Water: Systems, Science, and Society (WSSS)

Water Biology (Guest Lecturer)	2012	
Program Faculty	2008	present

### Tufts University School of Medicine Graduate Programs in Public Health



MPH 206: Intermediate Biostatistics: Regression Methods (Course Director)	1999	2010
Data Visualization and Graphical Presentation (Course Director)	1999	2005
<b>Sackler School of Graduate Biomedical Sciences Program</b>		
Elements of Data Analysis and Visualizations (Course Director)	2005	
Regression Methods: Standard and New Approaches (Course Director)	2000	
Epidemiology and Biostatistics (Instructor)	1998	1999
<b>Tufts University A&amp;S School</b>		
Ethical Dimension in Research (Guest Lecturer; Course Director – Lara Sloboda)	2014	2015
<b>Tufts University Summer School</b>		
Data Visualization and Graphical Presentation (Course Director)	2001	
<b>Graduate Program in Immunology (USSR)</b>		
Advanced Topics in Biostatistics	1987	1990
Introduction to Biostatistics	1987	1992

**Post-doctoral Trainees** (past = 4, current = 1)

**Doctoral Trainees** (past = 13, current = 7)

**Pre-Doctoral Trainees** (past = 6, current = 2)

**MS in Environmental and Public Health Trainees** (past = 25, current = 2)

**Undergraduate Trainees** (past = 5, current = 2)

**Peer-reviewed publications (Total citations: 4863 h-index: 32, h10-index: 82)**

\* student/trainee co-authorship under direct advising

- Kulinkina A\*, Mohan VR, Francis MR, Kattula D, Sarkar R, Ward HD, Kang G, Balraj V, **Naumova EN**. Seasonality of water quality and concurrent diarrhea in urban and rural settings in South India. *Scientific Reports*. 2016. (in press, January 12, 2016) 2016
- Yassai MB, Demos W, Janczak T, **Naumova EN**, Gorski J. CDR3 amino acid motif diversity of BV19 expressing circulating human CD8 T cells. *Human Immunology*. 2015, Nov 24. pii: S0198-8859(15)00560-1. doi: 10.1016/j.humimm.2015.11.007. 2015
- Lazarus RP, Ajjampur SS, Sarkar R, Geetha JC, Prabhakaran AD, Velusamy V, **Naumova EN**, Ward HD, Kang G. Serum anti-cryptosporidial gp15 antibodies in mothers and children less than 2 years of age in India. *American Journal of Tropical Medicine & Hygiene*. 2015, Aug 24. pii: 15-0044 2015
- Galaitis S\*, Huber-Lee A, Vogel R, **Naumova EN**. Accounting for Water Insecurity in Domestic Water Demand Modeling. *Water International*. 2015; 40(3). doi: 10.1080/02508060.2015.1067748 2015
- Collinet-Alder S\*, Sarkar R, Kattula D, Mohan VR, Kang G, Ward HD, Balraj V, **Naumova EN**. Environmental indicators of infectious diarrhea in Vellore, India: the effects of houseflies. *Journal of Applied Microbiology*. 2015, June 23. 81 (17), 6053-6058 2015
- Patton AP\*, Zamore W, **Naumova EN**, Levy JI, Brugge D, Durant JL. Generalizability and transferability of regression models of traffic-related ultrafine particles in urban neighborhoods in the Boston area. *Environmental Science & Technology*. 2015. doi: 10.1021/es5061676 2015
- Fefferman NH, **Naumova EN**. Dangers of vaccine refusal near the herd immunity threshold: a modelling study. *Lancet*. 2015. [http://dx.doi.org/10.1016/S1473-3099\(15\)00053-5](http://dx.doi.org/10.1016/S1473-3099(15)00053-5) 2015
- Erdman E\*, Liss A\*, Gute DM, Rioux C, Koch M, **Naumova EN**. Does the presence of vegetation affect asthma hospitalizations among the elderly? A comparison between rural, suburban, and urban areas. *International Journal of Sustainability and Environment*. 2015; 4 (1):1-14 2015
- Parham P, Waldo J, Christophides GK, Hemming D, Augusto F, Evans K, Fefferman NH, Gaff H, Gumel A, LaDeau S, Lenhart S, Mickens R, **Naumova EN**, Ostfeld R, Ready P, Thomas M, Velasco-Hernandez J, Edwin M. Climate, environmental, and socioeconomic change: weighing up the balance in vector-borne disease transmission. *Philos Trans R Soc Lond B Biol Sci*. 2015 Apr 5;370(1665). pii: 20130551 2015
- Kattula D\*, Francis MR, Kulinkina A, Sarkar R, Mohan VR, Babji S, Ward HD, Kang G, Balraj V, **Naumova EN**. Environmental drivers of diarrheal infection in rural and urban communities in southern India in children and adults. *Epidemiology & Infection*. 2015 Feb 18: doi:10.1017/S0950268814003562. 2015
- Mohan VR\*, Sarkar R, Vinod V, Balraj V, **Naumova EN**. Differential patterns, trends and hotspots of road traffic injuries on different road networks in Vellore district, southern India. *Journal of Tropical Medicine & International Health*. 2015 Mar;20(3):293-303. doi: 10.1111/tmi.12436. 2015
- Liss A\*, Koch M, **Naumova EN**. Redefining climate regions in the United States using remote sensing and machine learning: application to public health and vulnerability assessment. *Journal of Geospatial Health*. 2014 Dec 1; 8(3):294. doi: 10.4081/gh.2014.294. 2014
- Sarkar R, Kattula D\*, Ajjampur SRR, Prabhakaran AD, Jayavelu N, Muliylil JP, Balraj V, **Naumova EN**, Ward HD, Kang G. Risk factors for cryptosporidiosis among children in a semi-urban slum in southern India: a nested case-control study. *AJTMH*. 2014; (in press) 2014

14. Mohan VR\*, **Naumova EN**. Changes in land cover types and the incidence of malaria in Mangalore, India. *International Journal of Biomedical Research*. 2014; 5(8): 494-8 2014
15. Kattula D\*, Sarkar R, Sivarathinaswamy P, Velusamy V, Venugopal S, **Naumova EN**, Muliylil J, Ward HD, Kang G. The first 1000 days of life: prenatal and postnatal risk factors for morbidity and growth in a birth cohort in southern India. *BMJ Open*. 2014; 4:e005404 doi:10.1136/bmjopen-2014-005404. 2014
16. Hauser SI, Economos CD, Nelson ME, Goldberg JP, Hyatt RR, **Naumova EN**, Anderson SE, Must A. Household and family factors related to weight status in first-third graders: A cross-sectional study in Eastern Massachusetts. *BMC Pediatrics*. 2014 Jul 1;14(1):167. 2014
17. Tickle-Degnen L, Saint-Hilaire M, Cathi A, Thomas CA, Habermann B, Sprague-Martinez LS, Terrin N, Noubary F, **Naumova EN**. Emergence and evolution of social self-management of Parkinson's disease: study protocol for a 3-year prospective cohort study. *BMC Neurology*. 2014 May 2;14(1):95. doi:10.1186/1471-2377-14-95 2014
18. Mor S, DeMaria A, **Naumova EN**. Hospitalization records as a tool for assessing performance validating of food- and water-borne disease surveillance: a Massachusetts case study. *PLOS ONE*. 2014 April 16. 9(4): e93744. doi:10.1371/journal.pone.0093744 2014
19. Chandy SJ, Naik GS, Charles R, Jeyaseelan V, **Naumova EN**, Thomas K, Lundborg CS. The impact of policy guidelines on antibiotic use over a decade: segmented time series analysis. *PLOS ONE*. 2014 March 19;9(3):e92206. doi: 10.1371/journal.pone.0092206. 2014
20. Patton AP\*, Collins C, **Naumova EN**, Zamore W, Brugge D, Durant JL. An hourly regression model for ultrafine particles in a near-highway urban area. *Environmental Science & Technology*. 2014 Mar 18;48(6):3272-80. doi: 10.1021/es404838k. 2014
21. Behlau I, Martin KV, Martin JN, **Naumova EN**, Cadorette JJ, Sforza T, Dohlman CH. Boston keratoprosthesis-associated endophthalmitis: incidence and recommendations. *Acta Ophthalmol* 2014. Jan 25. doi: 10.1111/aos.12309. 2014
22. Folta SC, Kuder JF, Goldberg JP, Hyatt RR, Must A, **Naumova EN**, Nelson ME, Economos CD. Changes in diet and physical activity resulting from the Shape Up Somerville community intervention. *BMC Pediatrics*. 2013. 13:157 doi:10.1186/1471-2431-13-157. 2013
23. Sarkar R\*, Kang G, **Naumova EN**. Rotavirus seasonality and age effects in a birth cohort study of Southern India. *PLOS ONE*. 16 Aug 2013; 10.1371/journal.pone.0071616 2013
24. Jagai JS, Rosenbaum BJ, Pierson SM, Messer LC, Rappazzo K, **Naumova EN**, Lobdell DT. Putting regulatory data to work at the service of public health: utilizing data collected under the Clean Water Act. *Water Quality, Exposure and Health*. 2013. 1-9. doi:10.1007/s12403-013-0095-1 2013
25. Economos CD, Hyatt RR, Must A, Goldberg JP, Kuder JF, **Naumova EN**, Collings JJ, Nelson ME. Shape Up Somerville two-year results: a community-based environmental change intervention sustains a BMI z-score decrease in children. *Preventive Medicine*. 2013 Jun 8. doi:pii: S0091-7435(13)00193-X. 10.1016/j.ypmed.2013.06.001. 2013
26. Sarkar R\*, Ajjampur SSR, Prabakaran AD, Geetha JC, Thuppal VS, Kane A, Duara J, Muliylil JP, Balraj V, **Naumova EN**, Ward H, Kang G. Cryptosporidiosis among children in an endemic semi-urban community in southern India: does a protected drinking water source decrease infection? *Clinical Infectious Diseases*. 2013 May 24. doi:10.1093/cid/ cit288 2013
27. Shaposhnikov D, Revich B, Gurfinkel Y, **Naumova E**. The influence of meteorological and geomagnetic factors on acute myocardial infarction and brain stroke in Moscow, Russia. *Int J Biometeorol*. 2013 May 23. 10.1007/s00484-013-0660-0 2013
28. Roffler-Tarlov S, Liu JH, **Naumova EN**, Bernal-Ayala MM, Mason CA. L-Dopa and the Albino Riddle: content of L-Dopa in the developing retina of pigmented and albino mice. *PLOS ONE*. 2013; 8 (3), e57184 2013
29. Must A, Evans W, Palmer CA, Bermudez OI, **Naumova EN**, Cohen SA, Hayes C. Development and validation of a pediatric cariogenicity index. *Journal of Public Health Dentistry*. 2013. doi:10.1111/jphd.12009 2013
30. Sarkar R\*, Sivarathinaswamy P, Thangaraj B, Sindhu KNC, Ajjampur SSR, Muliylil JP, Balraj V, **Naumova EN**, Ward H, Kang G. Burden of childhood diseases and malnutrition in a semi-urban slum in southern India. *BMC Public Health*. 2013. 13:87; doi:10.1186/1471-2458-13-87 2013
31. McEntee J\*, **Naumova EN**. Building capacity between the private emergency food system and the local food movement: Working towards food justice and sovereignty in the global North. *Journal of Agriculture, Food Systems, and Community Development*. 2012 Dec; 3(1), 235–253. <http://dx.doi.org/10.5304/jafscd.2012.031.012> 2012
32. Moorthy M, Castronovo D, Abraham AM, Bhattacharyya S, Gradus S, Gorski J, Naumov YN, Fefferman NH, **Naumova EN**. Deviations in influenza seasonality: odd coincidence or obscure consequence? *Clinical Microbiology and Infection*. 2012 Oct;18(10):955-62. 2012
33. Spedden E, White JD, Kaplan DL, **Naumova EN**, Staii C. Elasticity maps of living neurons measured by combined fluorescence and atomic force microscopy. *Biophysical Journal*. 2012 Sep 5: 103(5):868-77. 2012
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283. BK Bindewald, **EN Naumova**, JK Griffiths, LR Ascolillo, RP Falzone, Morris RD. Temporal and geographical variation in serum antibodies to *Cryptosporidium*. *American Journal of Tropical Medicine and Hygiene*. 62 (3; SUPP), 289. 2000
284. BK Bindewald, **EN Naumova**. Reported cryptosporidiosis and reporting practice regulations in the United States: The first lesson learned. *In the Proceedings of the 128th Annual Meeting of APHA*. 2000
285. EN Naumova, RD Morris. Statistical tools for characterizing the emerging waterborne diseases: A time series approach. *In the Proceedings of the 128th Annual Meeting of APHA*. 2000
286. AI Egorov, **E Naumova**, V Kislitsin, A Tereschenko, T Ford. Gastro-intestinal morbidity and daily variations of water quality in the city of Cherepovets, Russia. *In the Proceedings of the 128th Annual Meeting of APHA*. 2000
287. N El Borai, M Araki, **E Naumova**, M Inoue, S Kato, K Yamamura. Herpes simplex virus in infertile couples: DNA sequence of PCR product. *International Journal of Gynecology & Obstetrics*. 2000; 70, C31. 2000
288. A Must, **EN Naumova**, NM Laird, LB Bandini, WH Dietz. Assessment of the influence of menarche 1999



- on body fat accretion. *Obesity Research*. 1999; 7, P-D
289. A Must, **E Naumova**, S Phillips, W Rand. Menarcheal timing and weight status in relation to weight status in late adolescence. *Paediatric and Perinatal Epidemiology*. 1999. 13, A18. 1999
290. **Naumova EN**, Morris RD. Seasonality of Emergency Room Visits for Childhood Asthma: Characterizing the Fall Peak. *Epidemiology*. 1999; 9 (4): S59. 1999
291. J Chen, **EN Naumova**, B Matyas, S Estes-Smargiassi, RD Morris. The characteristics of reported cases of cryptosporidiosis and giardiasis in Massachusetts and their association with water source. *Epidemiology*. 1999; 9 (4), S49. 1999
292. Morris RD, **Naumova EN**, Lewis C. A persistent association between water quality and gastroenteritis in Milwaukee despite improvements in water treatment. *Epidemiology*. 1999; 9(4), S49. 1999
293. El-Borai N, Suzuki S, LeFèvre C, Inoue M, **Naumova EN**, Sato K. Human *in vitro* fertilization and HSV-1 DNA. *In the Proceedings of the Third Congress of the Asian Medical Association*. 1998
294. Morris RD, **Naumova EN**, Zhang C, Chubin R. Development of Asthma Following Accidental Release of Aromatic Distillates in Superior, Wisconsin. *Epidemiology*. 1996; 7 (4), S32. 1996

### Invited Presentations at University Seminars and International Organizations

#### World Health Organization, European Commission, ENHIS Bonn, Germany

- Invited Speaker for the ENHIS Workshop "Analysis of Environmental Surveys" 2013
- Invited Panelist at the WHO Workshop "Atlas: Water and Health" 2012
- Participant of the WHO Workshop "Climate Change and Health: Lessons learned in the WHO" 2012
- Invited speaker at the WHO meeting "Challenges of Disease Seasonality Assessments" 2011

#### Harvard School of Public Health, Boston, MA

- Seminar Series Invited talks:
- Climate Variability, Extreme Weather Events, and Infectious Outbreaks* 2005
- Temporal variations in enteric infections: What is behind a seasonal curve?* 2003
- What would Michelangelo think about BMI?* 2001
- Evaluating the impact of "critical periods" in longitudinal studies of growth using mixed effects models.* 2000
- Harvard University School of Public Health Seminar on Drinking Water Quality and Public Health for water utilities and public health professionals representing Russian Federal Agencies. Topic: "Time series analysis as a framework for the characterization of water quality parameters and waterborne disease outbreaks" 2000

#### Rutgers University, Piscataway, NJ

- DIMACS/CCICADA Workshop: Climate and Health, Participant 2010
- DIMACS Workshop: Critical care demand forecasting during extreme weather events. Invited talk "Modeling and Mitigation of the Impacts of Extreme Weather Events to Human Health Risks" 2010
- DIMACS Workshop: Invited talk: "Spatial Dynamics of Influenza Hospitalizations in the US Elderly" 2006
- RECONNECT Conference Mathematical Methods in Biosurveillance: From basics to breakthroughs. Invited talk "Time Series Data in Surveillance Systems" 2008

#### Tohoku University, Sendai, Japan

- Research Seminar Invited talk: "Environmental Informatics: important venues to consider" 2015

#### Mount Sinai Medical School, New York, NY

- Research Seminar Invited talk: "Immune response to Influenza: Unique and Universal features at Individual and Population Levels" 2011

#### University of Massachusetts Medical School, Worcester, MA

- Research Seminar Invited talk: "Seasonality of infections: the use of novel methodologies" 2010

#### Children's Hospital Boston, Boston, MA

- Research Seminar Invited talk: "Seasonality of infections: new methods for assessment" 2009

#### The Gerald J. and Dorothy R. Friedman School of Nutrition Science and Policy, Boston, MA

- School Seminar Series Invited talk: "What would Michelangelo think about BMI?" 2007

#### Johns Hopkins University, Bloomberg School of Public Health, Baltimore, MD

- Research Seminar Invited talk: "Impacts of climate change on environmental microbiology" 2006

### Keynote and Invited Lectures

- Keynote Speaker for the 1st Massachusetts-South Africa Conference for Technology Transfer and Global Innovation "Environmental Drivers of Waterborne Infections: Trends in Research and Management." June 8-11, 2015. Cape Town, South Africa. 2015
- Keynote Speaker for iWISE 2014: International Conference on Water, Informatics, Sustainability, and Environment. August 25-28, 2014. Ottawa, Canada 2014
- Participant of the NIMBioS Working Group on Climate Change and Vector-borne Diseases 2014 present
- Keynote Speaker for the 3rd Eco-Cities Conference. Ajman, UAE 2014

Invited Speaker for The 11 <sup>th</sup> Freeman Symposium, Harvard University. Boston, MA	2013
Global Policy Institute on Science Workshop Participant, Tucson, AZ	2010
Invited speaker at the 4 <sup>th</sup> Annual Symposium on Systems and Computational Immunology Center for Human Immunology: "Modeling age-related changes in influenza-specific T cell repertoires." Milwaukee, WI	2010
Invited Speaker of the 7 <sup>th</sup> Christian Medical College's Winter Symposium on "Novel Analytical Tools for Public Health Research" sponsored by the NIAID, Vellore, India	2009
Presenter for EPA-sponsored Workshop. "Methodology for Assessing Seasonality of Water-borne Infections" Novosibirsk State University, Novosibirsk, Russia	2008

## Outreach Activities

Tufts Alumnae network	2015	present
Boston Chapter of Environmental Engineers Society (BCEES) and Society of Women Engineers (SWE) Boston, MA		
Invited Speaker: "Research Ethics for Engineers in a Technological Society"	2014	
Tufts Public Lecture Series		
Invited Panel Discussant for the Ebola Outbreak Preparedness	2014	
Invited Speaker for Peace and Justice Studies Association Annual Meeting	2012	
Massachusetts Department of Public Health, Boston, MA		
Invited Lecture: "Influenza Hospitalizations in the US Elderly"	2007	
Organizer of the Regional Workshop on Waterborne Infections and Climate Variability	2003	
Invited Lecture: "Gastroenteritis among the Elderly during the 1993 Milwaukee Cryptosporidiosis Outbreak"	2002	
New York City Department of Public Health and Mental Hygiene, New York, NY		
Invited Lecture Talk: "Temporal variations in enteric infections: What is behind an epi-curve?"	2004	
NEARC annual conference, Worcester, MA		
Invited Lecture Talk: "Spatio-temporal variations in waterborne infections reported to the state surveillance system"	2001	

## Media Coverage

One More Reason Why Vaccines Matter by Jackie Mitchell for Tufts Now, June 5, 2015. <a href="http://now.tufts.edu/articles/one-more-reason-why-vaccines-matter">http://now.tufts.edu/articles/one-more-reason-why-vaccines-matter</a>	2015
Science to the People by Jackie Mitchell for Tufts Now, May 12, 2015. <a href="http://now.tufts.edu/articles/science-people">http://now.tufts.edu/articles/science-people</a>	2015
Disease Tracking and Culture by Jackie Mitchell for Tufts Now, June 10, 2014. <a href="http://now.tufts.edu/articles/disease-tracking-and-culture">http://now.tufts.edu/articles/disease-tracking-and-culture</a>	2014
Tufts looks to expand data science field by Tufts Daily, May 19, 2014 <a href="http://tuftsdaily.com/news/2014/05/19/tufts-looks-to-expand-data-science-field/">http://tuftsdaily.com/news/2014/05/19/tufts-looks-to-expand-data-science-field/</a>	
Researchers See Hospitalization Records As Additional Tool by Alex Reid, Tufts Now, April 18, 2014. <a href="http://now.tufts.edu/news-releases/researchers-see-hospitalization-records-additional-tool-monitor-disease-outbreaks">http://now.tufts.edu/news-releases/researchers-see-hospitalization-records-additional-tool-monitor-disease-outbreaks</a>	2014
Engineering professor discusses water safety in southern India by Daniel Bottino for Tufts Daily, February 28, 2014. <a href="http://www.tuftsdaily.com/news/engineering-professor-discusses-water-safety-in-southern-india-1.2858670#.UzN49q1dVz4">http://www.tuftsdaily.com/news/engineering-professor-discusses-water-safety-in-southern-india-1.2858670#.UzN49q1dVz4</a>	2014
The use of electronic health records - interviewed by Elizabeth Gardner, Contributing Editor of Health Data Management, September 18, 2013. <a href="http://www.healthdatamanagement.com/issues/21_11/Health-IT-vs-Influenza-analytics-social-media-46821-1.html?zkPrintable=true">http://www.healthdatamanagement.com/issues/21_11/Health-IT-vs-Influenza-analytics-social-media-46821-1.html?zkPrintable=true</a>	2013
Tiny parasite is driving \$100M plan to replace Garret Mountain reservoirs by Richard Cowen, Oct 4, 2012 <a href="http://www.northjersey.com/news/environment/Tiny_parasite_is_driving_100M_plan_to_replace_Garret_Mountain_reservoirs.html?mobile=1">http://www.northjersey.com/news/environment/Tiny_parasite_is_driving_100M_plan_to_replace_Garret_Mountain_reservoirs.html?mobile=1</a>	2012
Influenza Research: Can Dynamic Mapping Reveal Clues about Seasonality? by Alex Reid, Sep 7, 2012 <a href="http://now.tufts.edu/news-releases/influenza-research-can-dynamic-mapping-reveal">http://now.tufts.edu/news-releases/influenza-research-can-dynamic-mapping-reveal</a>	2012
Seasonal sickness. The Telegraph News. June 11, 2012 <a href="http://www.telegraphindia.com/1120611/jsp/knowhow/story_15593892.jsp#.UAn6a2FWrEM">http://www.telegraphindia.com/1120611/jsp/knowhow/story_15593892.jsp#.UAn6a2FWrEM</a>	2012
Weather Patterns Can Be Used to Forecast Rotavirus Outbreaks by Alex Reid, June 1, 2012: <a href="http://now.tufts.edu/news-releases/weather-patterns-can-be-used-forecast-rotavir">http://now.tufts.edu/news-releases/weather-patterns-can-be-used-forecast-rotavir</a>	2012
More Likely To Get Flu Being Near the Sick Than Touching Infected Items by Garret Fitzpatrick, December 13, 2011 <a href="http://scopeweb.mit.edu/?s=naumova">http://scopeweb.mit.edu/?s=naumova</a>	2011
Top Story: Two Steps Ahead of the Flu by Jacqueline Mitchell for <i>Tufts Journal</i> . December 21, 2010: <a href="http://tuftsjournal.tufts.edu/archives/1552/two-steps-ahead-of-the-flu?rss=rss">http://tuftsjournal.tufts.edu/archives/1552/two-steps-ahead-of-the-flu?rss=rss</a>	2010

- Interviewed by Peter Matveuk for Russian Regional Network "Slovo", June 18, 2010 2010
- Commentary on Google Flu Trends Do Not Match CDC Data – Interviewed by Melinda Wenner for *Popular Mechanics*. May 18, 2010 2010  
<http://www.popularmechanics.com/science/health/med-tech/google-flu-trends-cdc-data>
- Interviewed on Tracking Seasonal Flu for *Tufts Journal*. May 5, 2010 2010  
[http://tuftsjournal.tufts.edu/2010/05\\_1/briefs/02/](http://tuftsjournal.tufts.edu/2010/05_1/briefs/02/)
- Commentary on Identifying the Geography of Flu Outbreaks by Phil Leggiere for *Homeland Security Insights & Analysis*. April 20, 2010 2010  
<http://www.hstoday.us/content/view/12963/149/>
- Commentary on Linking Disease Incidence with Environmental Exposure Data over Time by Erin D. Hopper for *NIEHS Environmental Factor*. March 19, 2010 2010  
<http://www.niehs.nih.gov/news/newsletter/2010/march/science-linking.cfm>
- Commentary on the NIH-funded study by health risks due to air pollution in Quito, Ecuador by for *El Comercio*. March 5, 2010 2010  
[http://www.elcomercio.com/noticiaEC.asp?id\\_noticia=338431&id\\_seccion=8](http://www.elcomercio.com/noticiaEC.asp?id_noticia=338431&id_seccion=8)
- Commentary on Infectious Disease Events, Crises, and Disasters: An Operational Definition, by James M. Wilson, MD. January 20, 2010 2010  
<http://biosurveillance.typepad.com/biosurveillance/2010/01/infectious-disease-events-crises-and-disasters-an-operational-definition.html>
- Interviewed by Robert Fisher for Neue Zürcher Zeitung (Switzerland Daily News Journal), Jan 31, 2010 2010  
[http://www.nzz.ch/nachrichten/wissenschaft/warum\\_wir\\_im\\_winter\\_krank\\_werden\\_1.4715432.html](http://www.nzz.ch/nachrichten/wissenschaft/warum_wir_im_winter_krank_werden_1.4715432.html)
- Russian Regional Network "Slovo" – Interviewed by Olga Volkova, April 24, 2008 2008
- Boston Globe "Meeting the Mind" series – Interviewed by Billy Baker, July 31, 2008 2008  
[http://www.boston.com/news/science/articles/2008/06/30/when\\_her\\_numbers\\_are\\_up\\_its\\_bad\\_news/](http://www.boston.com/news/science/articles/2008/06/30/when_her_numbers_are_up_its_bad_news/)
- BBC – Interviewed by Seva Novgorodtsev, August 24, 2007 2007

**Press Releases:**

- <http://news.tufts.edu/releases/release.php?id=186>
- <http://news.tufts.edu/releases/release.php?id=163>
- <http://news.tufts.edu/releases/release.php?id=147>
- <http://news.tufts.edu/releases/release.php?id=130>
- <http://news.tufts.edu/releases/release.php?id=81>
- <http://news.tufts.edu/releases/release.php?id=53>

**Professional Continuing Training and Education**

- Participant of the
- Workshop: Promoting Active and Collaborative Learning in a Classroom Setting, Tufts University School of Medicine, Office of Continuing Education, Boston, MA 2015
- Workshop: Pronoun Fluency and Gender Neutral Language, CELT, Tufts University, Boston, MA 2015
- Training Course: Application of MatLab, Boston, MA 2007
- Workshop: Writing NIH-grants, Boston, MA 2006
- Workshop: Writing successful NIH-grants, Boston, MA 2002
- Training Course: Analyzing Mixed-Effects Models with S-PLUS. Insightful Corporation, Boston, MA 2001
- Training Course: Sampling-Based Methods for Bayesian and Likelihood Inference. ASA Continuing Education Program. Joint Statistical Meetings, Chicago, IL 1996
- Training Course: The C++ Programming Language. Department of Mathematics, Statistics and Computer Science, Marquette University, Milwaukee, WI 1994
- Training Course: Medical Terminology: Damon/Dean Vaughn Learning System, Medical College of Wisconsin, Milwaukee, WI 1994