

## CURRICULUM VITAE

**PART I: General Information**

**Date Prepared:** May 5, 2017

**Name:** Nicholas Alexander Christakis

**Main Office Address:** Yale Institute for Network Science  
P.O. Box 208263  
New Haven, CT 06520-8263

**E-Mail:** nicholas.christakis@yale.edu

**Websites:** www.HumanNatureLab.net  
www.NicholasChristakis.net

**Phones:** (203) 436-4747 (office)  
(203) 432-5423 (fax)

**Education:**

1979-84 B.S., Biology, *summa cum laude*  
Yale University, New Haven, CT

1984-89 M.D., *cum laude*  
Harvard Medical School, Boston, MA

1987-88 M.P.H.  
Harvard School of Public Health, Boston, MA

1991-95 Ph.D., Sociology  
University of Pennsylvania, Philadelphia, PA

**Postgraduate Training:**

1989-91 Resident in Medicine  
University of Pennsylvania Medical Center, Philadelphia, PA

1991-93 Robert Wood Johnson Foundation Clinical Scholar  
University of Pennsylvania, Philadelphia, PA

1993-95 National Research Service Award Fellow  
Department of Sociology and Division of General Internal Medicine  
University of Pennsylvania, Philadelphia, PA

**Licensure and Certification:**

1990                 Diplomate, National Board of Medical Examiners  
1993                 Diplomate, American Board of Internal Medicine  
2002                 Massachusetts License (#212672)  
2014                 Connecticut License (#53536)

**Academic Appointments:**

1987-88             Teaching Fellow, Department of the History of Science  
Harvard University, Cambridge, MA

1990-91             Assistant Instructor, Department of Medicine  
University of Pennsylvania, Philadelphia, PA

1991-94             Fellow, Department of Medicine  
University of Pennsylvania, Philadelphia, PA

1994-95             Instructor, Department of Medicine  
University of Pennsylvania, Philadelphia, PA

1995-98             Assistant Professor of Sociology  
Department of Sociology  
University of Chicago, Chicago, IL

1995-98             Assistant Professor of Medicine  
Department of Medicine  
University of Chicago, Chicago, IL

1999-01             Associate Professor of Sociology  
Department of Sociology  
University of Chicago, Chicago, IL

1999-01             Associate Professor of Medicine  
Department of Medicine  
University of Chicago, Chicago, IL

2001                 Professor of Sociology  
Department of Sociology  
University of Chicago, Chicago, IL

2001                 Professor of Medicine  
Department of Medicine  
University of Chicago, Chicago, IL

2001-13             Professor of Medical Sociology  
Department of Health Care Policy  
Harvard Medical School, Boston, MA

- 2005-13      Professor of Sociology  
Department of Sociology  
Harvard University, Cambridge, MA
- 2009-13      Professor of Medicine  
Department of Medicine  
Harvard Medical School, Boston, MA
- 2013-        Sol Goldman Family Professor of Social and Natural Science  
Departments of Sociology; Ecology & Evolutionary Biology; Biomedical  
Engineering; and Medicine  
Yale University, New Haven, CT

**Clinical Appointments:**

- 1995-01      Attending Physician  
University of Chicago Medical Center, Chicago, IL
- 1999-01      Home Hospice Physician  
Horizon Hospice, Chicago, IL
- 2002-06      Attending Physician, Palliative Medicine Service  
Massachusetts General Hospital, Boston, MA
- 2006-13      Attending Physician, Department of Medicine  
Mt. Auburn Hospital, Harvard Medical School, Boston, MA
- 2013-        Physician, Department of Medicine  
Yale New Haven Hospital, New Haven, CT

**Selected Other Professional Positions and Visiting Appointments:**

- 1981-83      Research Assistant, Laboratory of Dr. Tom Reese  
Marine Biological Laboratory, Woods Hole, MA, and  
NINCDS, National Institutes of Health, Bethesda, MD
- 1981-82      Research Assistant, Laboratory of Dr. George Peries  
Institut de Recherches sur les Maladies du Sang,  
Département d'Oncologie Expérimentale, Hôpital Saint-Louis, Paris, France
- 1995-99      Core Faculty  
Robert Wood Johnson Clinical Scholars Program  
University of Chicago, Chicago, IL
- 1999        Visiting Professor  
Sydney Institute of Palliative Medicine,  
Royal Prince Alfred Hospital, Sydney, Australia

- 2000 Visiting Professor  
Sydney Institute of Palliative Medicine,  
Royal Prince Alfred Hospital, Sydney, Australia
- 2000 Visiting Fellow  
Edith Cowan University, Perth, Australia
- 2001-02 Visiting Professor  
Center on Ethics and the Professions, Harvard University, Cambridge, MA

### **Major Administrative Responsibilities:**

- 1999-01 Co-Director  
Robert Wood Johnson Foundation Clinical Scholars Program  
University of Chicago, Chicago, IL
- 2002-08 Director, 2002-05; Executive Committee Member, 2005-08  
Robert Wood Johnson Foundation Health Policy Scholars Program  
Harvard University, Cambridge, MA
- 2009-13 Master, Pforzheimer House, Harvard College  
Harvard University, Cambridge, MA
- 2013- Co-Director, Yale Institute for Network Science  
Yale University, New Haven, CT
- 2015-16 Master, Silliman College, Yale College  
Yale University, New Haven, CT

### **Major Committee Assignments (since 2001):**

#### Intramural:

- 2001-02 Faculty Search Committee, Department of Health Care Policy, Harvard Medical School
- 2002-03 Faculty Search Committee, Department of Social Medicine, Harvard Medical School
- 2002-05 Steering Committee for Dana-Farber/Harvard Cancer Center Palliative Care/Psychosocial Oncology, Harvard Medical School
- 2003-04 Faculty Search Committee, Hebrew Rehabilitation Center, Harvard Medical School
- 2003-13 Standing Committee on Health Policy, Harvard University
- 2003-13 Steering Committee for the Institute for Quantitative Social Science, Harvard University
- 2003-13 Faculty Committee, MD/PhD Program in Social Sciences, Harvard Medical School
- 2003-04 Faculty Search Committee, Primary Care Division, Harvard Medical School
- 2003-05 Faculty Committee, Office of Research Compliance, Harvard Medical School
- 2003-06 Committee on Promotions, Reappointments, and Appointments, Harvard Medical School
- 2004-05 Faculty Search Committee, Department of Society, Human Development, and Health, Harvard School of Public Health

2004-05 Faculty Search Committee, Division of Psychosocial Oncology and Palliative Care, Dana-Farber Cancer Institute, Harvard Medical School

2004-05 Faculty Search Committee, Department of Ambulatory Care and Prevention, Harvard Medical School

2004-06 Admissions Committee, Department of Sociology, Harvard University

2006-07 Junior Faculty Search Committee, Department of Sociology, Harvard University

2006-13 Standing Committee on Global Health, Harvard University

2006-09 Subcommittee of Professors, Harvard Medical School

2008-09 Admissions Committee, Department of Sociology, Harvard University

2008-10 Social Science Planning Committee, Harvard University

2009-12 Faculty Council, Harvard Medical School

2010-11 Admissions Committee, Department of Sociology, Harvard University

2010-13 Advisory Committee on Honorary Degrees, Harvard University

2011-13 Committee on Higher Degrees, Department of Sociology, Harvard University

2012- Executive Committee, Institution for Social and Policy Studies, Yale University

2013- Advisory Committee on Honorary Degrees, Yale University

2013-14 Decanal Search Committee, Yale University

2014- Yale College Committee on Admissions and Financial Aid

2014- Tenure Appointments Committee for the Biological Sciences, Yale University

Extramural:

1999-05 Member, “Social Sciences and Population Studies” (SSPS) Study Section (formerly known as “SNEM-3”), National Institutes of Health

2001-05 Member, National Assessors Panel for Cancer Research Grants for Australia (Study Section)

2005-08 Member, National Advisory Committee, Robert Wood Johnson Foundation Investigator Awards in Health Policy Research

2005-06 Member, International Advisory Panel, Korean Longitudinal Study of Aging (KLoSA)

2005-13 Member, Data Monitoring Committee, Health and Retirement Survey (HRS)

2008 Member, National Institute on Aging, Behavioral and Social Research Quadrennial Review Committee

2013 Center for Scientific Review, National Institutes of Health, Study Section Review Committee

**Editorial Responsibilities:**Editorial Positions:

1988-95 Member, Editorial Board, *Law, Medicine & Ethics*

1993-00 Member, Editorial Board, *IRB: A Review of Human Subjects Research*

1998-06 Member, Editorial Board, *Journal of Palliative Medicine*

1999-06 Member, Editorial Board, *British Medical Journal (BMJ)*

2000-01 Associate Editor, *American Journal of Sociology (AJS)*

2002-11 Associate Editor, *Palliative Medicine [UK]*

Ad Hoc Reviews:

*American Journal of Clinical Nutrition*

*American Journal of Public Health*  
*American Journal of Sociology*  
*American Sociological Review*  
*Annals of Internal Medicine*  
*Archives of Pediatrics and Adolescent Medicine*  
*British Medical Journal*  
*Circulation*  
*Culture, Medicine, and Psychiatry*  
*Demography*  
*Economics and Human Biology*  
*Hastings Center Report*  
*Health Affairs*  
*Health Services and Outcomes Research Methodology*  
*Information*  
*International Journal of Environmental Studies*  
*International Journal of Epidemiology*  
*IRB: A Review of Human Subjects Research*  
*JAMA (Journal of the American Medical Association)*  
*Journal of General Internal Medicine*  
*Journal of Health Economics*  
*Journal of Pain and Symptom Management*  
*Journal of Palliative Medicine*  
*Law, Medicine & Ethics*  
*Medical Care*  
*Nature*  
*New England Journal of Medicine*  
*Obesity*  
*Oxford University Press*  
*Palliative Medicine*  
*Pediatrics*  
*Population Research and Policy Review*  
*PNAS: Proceedings of the National Academy of Sciences*  
*Science*  
*Sciences Sociales et Santé*  
*Social Science and Medicine*  
*Sociological Methods and Research*  
*Sociological Methodology*

### **Awards and Honors:**

1984	Chittenden Prize, Yale University: awarded to the graduating senior majoring in the sciences who ranks highest in the class
1984	Montaigne Prize, Yale University: for excellence in French
1988	Bowdoin Prize, Harvard University: awarded to a graduate student for the best essay in the natural sciences
1992	Lee B. Lusted Prize, Society for Medical Decision Making: awarded to the best post-doctoral paper at the 14th Annual Meeting
1996	Digby Baltzell Prize, University of Pennsylvania: awarded for the best dissertation in Sociology

- 2006 Distinguished Researcher Award, National Hospice and Palliative Care Organization: awarded for an “outstanding body of work contributing to the enhancement of hospice and palliative care”
- 2006 Member, Institute of Medicine, National Academy of Sciences
- 2009 Winner, “Books for a Better Life” Award, for *Connected*
- 2010 Runner Up, San Francisco Book Festival Non-Fiction Prize, for *Connected*
- 2010 Fellow, American Association for the Advancement of Science
- 2011 Best Paper of the Year, International Society for Environmental Epidemiology, for “Social Network Sensors for Early Detection of Contagious Outbreaks”
- 2017 Fellow, American Academy of Arts and Sciences

### Languages:

Fluent Greek  
 Fair French (lost fluency)  
 Fair Spanish (lost fluency)

## PART II: Research, Teaching, and Clinical Contributions

### Funding

#### Past Funding (Since 1995, Selected):

- 1995-98 “Physician Prognostication and Decisions to Refer Terminally Ill Patients to Hospice,” Project on Death in America Soros Faculty Scholar, Open Society Institute (PI; \$229,500)
- 1996-98 Faculty Development Trainee, Geriatric Academic Program Award, National Institute on Aging, National Institutes of Health (K-12 AG00488), (Investigator; \$164,000)
- 1996-99 “Access to Hospice Care For Alzheimer Patients at the End of Life,” Alzheimer’s Association, (PI; \$221,806)
- 1998-02 “The Clinical Scholars Program at the University of Chicago,” Robert Wood Johnson Foundation, (Co-Director; \$2,350,249)
- 1998-02 “A Population-Based Study of the Use and the Consequences of Hospice Terminal Care in Elderly Medicare Beneficiaries,” National Institute on Aging, National Institutes of Health (R-01 AG15326), (PI; \$877,299)
- 2001-04 “Health in Marriage: Policy Implications of Spousal Illness and Death,” Investigator Award in Health Policy Research, Robert Wood Johnson Foundation, (PI; \$242,990)
- 2001-07 “A Population-Based Study of the Inter-Relationship of Morbidity and Mortality Between Elderly Spouses,” National Institute on Aging, National Institutes of Health (R-01 AG17548), (PI; \$3,077,073)
- 2002-07 “The Health Policy Scholars Program at Harvard University,” Robert Wood Johnson Foundation, (PI; \$4,764,358)
- 2004-08 “A Social Network-Based Study of Inter-Individual Health Effects in the Framingham Heart Study,” National Institute on Aging, National Institutes of Health (R-01 AG24448), (PI; \$2,060,986)
- 2006-08 “Psychological and Financial Burden of Cancer Caregiving in Elderly Spouses” National Institute on Aging, National Institutes of Health (R-03 AG028628), (PI; \$120,000)

- 2007-11 “Dynamic Relationship of BMI and SES Over the Life Cycle and Between Generations” National Heart, Lung, Blood Institute, National Institutes of Health (R-01 HL086830), (Investigator)
- 2007-10 “Development of Network Data and Methods for the Study of Health and Health Care,” Robert Wood Johnson Foundation, Pioneer Award (PI; \$653,556)
- 2008-14 “Networks and Neighborhoods,” National Institute on Aging, National Institutes of Health (P-01 AG031093), (PI; \$11,026,363)
- 2009-14 “Roybal Center for Translational Research on Aging,” National Institute on Aging, National Institutes of Health (P-30 AG034420), (PI; \$1,859,558)
- 2010-12 “Exploring the Social Contagion of Generosity,” John Templeton Foundation, (PI; \$396,447)
- 2012-14 “Social Networks and Maternal Health in Honduras (Planning Grant),” Bill and Melinda Gates Foundation, (PI: \$467,665)
- 2014-16 “An Open-Source Toolbox to Map Real-World Social Networks,” Robert Wood Johnson Foundation, (PI: \$267,609)
- 2011-16 “Using Social Networks to Understand and Improve Health,” Robert Wood Johnson Foundation, Pioneer Award (PI; \$2,827,420)

#### Current Funding:

- 2014-20 “Social Influence in Networks to Magnify Population-Level MNCH Behavior Change),” Bill and Melinda Gates Foundation, (PI: ~\$6,200,000)
- 2014-19 “Roybal Center for Social Networks and Well-Being,” National Institute on Aging, National Institutes of Health (P-30 AG034420), (PI; \$1,631,579)
- 2016-21 “YINS-TATA Research and Knowledge Sharing Collaboration,” Tata Group, (PI; \$7,500,000)
- 2016-20 “Wholesale Innovation Through Innovative Social Science (WITNESS),” DARPA, (sub-contract PI; \$642,253)
- 2016-21 “International Technology Alliance (ITA),” DARPA, (Investigator; \$1,370,070)

#### **Teaching**

##### **Full Courses Offered (Past Ten Years):**

“*Networks and Health*,” Management 874, Yale University: This graduate course explores new research and applications in network science, with an emphasis on health-related examples. The material covered equip students to analyze problems in public health, global health, and medicine, and to be leaders of companies, entrepreneurial efforts, and policy-making related to health and health care. Offered in: 2016-17

“*Network Interventions*,” Management 573, Yale University: This graduate course explores influential and cutting-edge research related to network science, and equips students with tools to analyze problems related to phenomena as diverse as: product marketing, sustainability initiatives, financial market contagions, team assembly and performance, firm mergers, demand forecasting, and the spread of violence or infection or rumors, etc.. Offered in: 2016-17

“*Health of the Public: Medicine and Disease in Social Context*,” Sociology 126, Yale University: This undergraduate course examines the social causes and context of illness, death, and health care in the U.S. today. Who stays healthy and who falls ill? Who has a long life and who has a short one? What is a good death and why do so few Americans achieve it? What is good medical care and



who gets it? What role do physicians play in producing health in our society? Do certain kinds of social networks or neighborhoods improve health? Overall, the course evaluates the collective constraints on individuals' life prospects. Offered in: 2012-13, 2013-14, 2014-15

“*Biosocial Science*,” Sociology 636b, Yale University: This graduate seminar covers topics at the intersection of the natural and social sciences, including behavior genetics, gene-environment interactions, and social epigenetics. We will in particular focus on the ways in which our genes are in a (short and long) conversation with our social environment. To what extent does our genetic makeup influence our behaviors? To what extent do our genes increase or decrease our risk for illness given particular environmental exposures? What are the biological bases of resilience? And, conversely, how does the social environment come to regulate our genome? How do social exposures reshape neural and endocrine processes? How do social exposures “get under our skin”? How are they literally embodied? Offered in: 2013-14, 2014-15

“*Big Ideas*,” College Seminar CSYC 295, Yale University: This undergraduate course introduces students to the world's most important ideas and disciplines. It is the conceit of this course that there are precious few important ideas that have relevance beyond their specific disciplines, but it is these very ideas that comprise the *sine qua non* of a modern education. A wide range of subjects are covered including Psychology, Economics, Biomedicine, Linguistics, Philosophy, Physics, Sociology, and more. Offered in 2013-14

“*Life and Death in the U.S.A.: Medicine and Disease in Social Context*,” Sociology 190, Harvard University: This undergraduate course examines the social causes and context of illness, death, and health care in the U.S. today. Who stays healthy and who falls ill? Who has a long life and who has a short one? What is a good death and why do so few Americans achieve it? What is good medical care and who gets it? What role do physicians play in producing health in our society? Do certain kinds of social networks or neighborhoods improve health? Overall, the course evaluates the collective constraints on individuals' life prospects. Offered in: 2005-06, 2006-07, 2007-08, 2008-09, 2010-11, 2011-12, 2012-13

“*Methods in Medical Education Research*,” Harvard Medical School. This year-long course consisted of ten instructional hours given to physician fellows interested in acquiring skills in medical education research. Offered in: 2006-07, 2007-08, 2009-10, 2010-11, and 2011-2012.

“*Big Ideas*,” Freshman Seminar 27e, Harvard University: This undergraduate course introduces students to the world's most important ideas and disciplines. It is the conceit of this course that there are precious few important ideas that have relevance beyond their specific disciplines, but it is these very ideas that comprise the *sine qua non* of a modern education. A wide range of subjects are covered including Psychology, Economics, Biomedicine, Linguistics, Philosophy, Physics, Sociology, and more. Offered in 2011-12

“*Health and Social Structure*,” Sociology 390, Harvard University: This graduate seminar course considers cutting-edge developments in the areas of network science, medical sociology, and demography, with an emphasis on the role of networks and neighborhoods in health and health care. Offered in: 2007-08, 2008-09, 2009-10, 2010-11, 2011-12, 2012-2013

“*Sociological Research Design*,” Sociology 201, Harvard University: This graduate course guides students through the process of producing an original research paper of high quality. Readings and discussion cover the identification of appropriate research problems, the nature of causal reasoning, and data analysis and write-up. Co-taught. Offered in: 2005-06, 2006-07

**Current and Recent Commercial Affiliations**

Gallup	Senior Scientist
Activate Networks	Founder, Member of the Board of Directors
Ditto Labs	Member, Scientific Advisory Board
Whoop	Member, Scientific Advisory Board
OnCorps	Scientific Advisor
Virgin Pulse	Member, Scientific Advisory Board

**Invited Presentations (Since 1999, Selected):**

1999	“Health Services Research in Palliative Care in the United States,” Sydney Institute of Palliative Medicine, Royal Prince Alfred Hospital, Sydney, Australia
1999	“Health Services Research in Palliative Care in the United States,” Canberra Hospital, Canberra, Australia
1999	“The Extent and Determinants of Accuracy in Physicians’ Prognoses When Patients are Referred to Hospice,” and “Patient Survival After Enrollment in Hospice,” Keynote Addresses, Minnesota Hospice Organization Conference, Bloomington, MN
1999	“Some Insights into Physician Anxiety,” Society and Medicine: Explorations of Their Moral and Spiritual Dimensions, A Festschrift Conference in Honor of Renée C. Fox, Philadelphia, PA
2000	“A Series of Projects on the Determinants of the Timing of Hospice Enrollment,” “An Introduction to Survey Methods for Health Services Research in Palliative Medicine,” and “An Introduction to Case/Control and Cohort Methods for Health Services Research in Palliative Medicine,” Workshop on The Care of Patients with Advanced and Progressive Disease: Research and Research Methodology, Royal Prince Alfred Hospital, Sydney, Australia
2000	“Death Foretold: Some Aspects of Prognostication in Clinical End-of-Life Care,” Sydney Institute of Palliative Medicine, Royal Prince Alfred Hospital, Sydney, Australia
2000	“Death Foretold: Prognosis in Cancer Care,” Department of Epidemiology, Monash University, Melbourne, Australia
2000	“The Accuracy of Physicians’ Prognoses in Cancer Care,” Anti-Cancer Council of Victoria, Melbourne, Australia
2000	“The Extent and Determinants of Error in Doctors’ Prognoses for Terminally Ill Patients: A Prospective Study,” Grand Rounds, Sir Charles Gairdner Hospital, Perth, Australia
2000	“Death Foretold: Prophecy and Prognosis in Medical Care,” Western Australia Council for Palliative Care, Perth, Australia
2000	“Death Foretold: Prophecy and Prognosis in Medical Care,” Institution for Social and Policy Studies, Yale University, New Haven, CT
2000	“The Extent and Determinants of Error in Physicians’ Prognoses in Terminally Ill Patients,” Grand Rounds, Cook County Hospital, Chicago, IL
2000	“Death Foretold: Prophecy and Prognosis in Medical Care,” Leonard Davis Institute, University of Pennsylvania, Philadelphia, PA
2000	“Barriers to the Use of Hospice Care at the End of Life,” testimony before the United States Senate, Special Committee on Aging, Washington, DC

- 2000 “‘How Long Do I Have to Live?’ -- Why Prognostic Questions Trouble Doctors,”  
Keynote Address, Midwest Society of General Internal Medicine Annual Meeting
- 2000 “‘How Long Do I Have to Live?’ -- Why Prognostic Questions Trouble Doctors,”  
The Medical Center Hour, University of Virginia, Charlottesville, VA
- 2000 “‘The Transition to Hospice Care in Seriously Ill Elderly Patients,’” Department of  
Health Care Policy, Harvard Medical School, Boston, MA
- 2001 “‘Nice Help If You Can Get It: Inter-Spousal Support, Gender, Medicine, and Death,’”  
Notestein Seminar, Population Research Center, Princeton University, Princeton,  
NJ
- 2001 “‘The Practical Predicament of Prognostication at the End of Life,’” Plenary Keynote  
Address, 7th International Meeting of the European Association for Palliative  
Care, Palermo, Italy
- 2001 “‘Nice Help If You Can Get It: Inter-Spousal Support, Gender, Medicine, and Death’”  
The Frances H. Schiltz Lecture, University of Kansas School of Medicine,  
Wichita, KS
- 2001 “‘How Long Do I Have to Live?’ -- Why Prognostic Questions Trouble Doctors,’”  
Johns Hopkins University Medical School, Baltimore, MD
- 2002 “‘Nice Help if You Can Get It: Inter-Spousal Support, Gender, Medicine, and Death,’”  
Medical University of South Carolina, Charleston, SC
- 2002 “‘How Long Do I Have to Live?’ -- Why Prognostic Questions Trouble Doctors,’”  
Grand Rounds, University of Pennsylvania Medical Center
- 2002 “‘Some Comments on Inter-ethnic Variation in Schizophrenia and Suicide Rates,’”  
Jacobs Foundation Conference, Marbach Castle, Germany
- 2002 “‘Foreseeing and Foretelling a Good Death,’” Public Lecture, King’s College, London,  
England
- 2003 “‘Death Foretold: Epidemiological and Sociological Studies of Whether and How  
Physicians Prognosticate,’” McGill University, Montreal, Canada
- 2003 “‘How Long Do I Have to Live?’ -- Why Prognostic Questions Trouble Doctors,’”  
Grand Rounds, Department of Medicine, Brigham and Women’s Hospital,  
Boston, MA
- 2003 “‘The Health of Migrants,’” Conference on African Migration and Urbanization in  
Comparative Perspective, Johannesburg, South Africa
- 2004 “‘The Health Impact on Families of Health Care: A Matched Cohort Study of Hospice  
Use by Decedents and Mortality Outcomes in Surviving, Widowed Spouses,’”  
Grand Rounds, Hygeia Hospital, Athens, Greece
- 2004 “‘How Long Do I Have to Live?’ -- Why Prognostic Questions Trouble Doctors,’”  
Magdalen College, Oxford University, Oxford, UK
- 2004 “‘Physicians’ Responses to Prognostic Error,’” European Association of Palliative  
Care, Conference held in Milan, Italy
- 2004 “‘The Effect of Disabling Illness or Death in One Spouse on the Mortality of the  
Other,’” NBER Conference on Disability in the U.S., Charleston, SC
- 2004 “‘Cascade’ Effects with Respect to Health and Health Care in Social Networks,’”  
University of Maryland Population Research Center, College Park, MD
- 2004 “‘How Long Do I Have to Live?’ -- Why Prognostic Questions Trouble Doctors,’”  
Grand Rounds, Lahey Clinic, Burlington, MA
- 2004 “‘Hospice Care, The Widower Effect, and Social Networks at the End of Life,’”  
National Advisory Council on Aging, NIH, Bethesda, MD
- 2004 “‘Health Externalities of Illness and Medical Care Near the End of Life,’” The Institute  
for Fiscal Studies, University College, London, UK
- 2004 “‘Using CMS Data to Examine the Determinants and Outcomes of End-of-Life Care,’”  
Centers for Medicare and Medicaid Services, Baltimore, MD

- 2004 “Inter-Spousal Mortality Effects: Caregiver Burden Across the Spectrum of Disabling Disease,” NBER Conference on Disability in the U.S., Jackson Hole, WY
- 2004 “Inter-Spousal Mortality Effects: Caregiver Burden Across the Spectrum of Disabling Disease,” Royal Prince Alfred Hospital, University of Sydney, Sydney, Australia
- 2004 “Inter-Spousal Health Effects of Illness and Medical Care in the Elderly Near the End of Life,” New South Wales Society for Palliative Medicine and Sydney Institute of Palliative Medicine, Sydney, Australia
- 2004 “Health Impact of Health Care on Surviving Family of Cancer Patients,” Clinical Oncological Society of Australia (COSA) Annual Meeting, Canberra, Australia
- 2004 “How Long Do I Have to Live?” -- Why Prognostic Questions Trouble Doctors,” Clinical Oncological Society of Australia (COSA) Annual Meeting, Canberra, Australia
- 2004 “Social Aspects of Dignity at the End of Life,” University of Tasmania, Hobart, Australia
- 2005 “Uncertainty and Dread Regarding Prognosis Among Physicians,” Luso-American Foundation, Lisbon, Portugal
- 2005 “The Health Impact of Health Care on Family Members of Seriously Ill Patients,” Aghia Sophia Children’s Hospital, Athens, Greece
- 2005 “Staying Healthy for Your Partner’s Sake,” Keynote Address, Hellenic-American Medical Society and the Harvard Club of Greece, Athens, Greece
- 2005 “Health Externalities: How Illness and Health Care in One Spouse Affect the Survival of the Other,” RAND Corporation, Los Angeles, CA
- 2005 “Health Externalities: How Illness and Health Care in One Spouse Affect the Survival of the Other,” Duke University, Durham, NC
- 2005 “The Epidemiological Study of Intra-Familial Health Effects: Spousal Hospitalization and Partner Mortality,” University of Athens, Athens, Greece
- 2005 “Prognostication and Palliative Care,” Lisbon Faculty of Medicine, Lisbon, Portugal
- 2005 “The Health Effects of End-of-Life Care on Spouses: Revisiting the Widower Effect and Caregiver Burden,” Lisbon Faculty of Medicine, Lisbon, Portugal
- 2005 “The Science and Art of Prognosis Near the End of Life: Implications for Patients, Doctors, and Society,” Annual Opening Lecture of the Academic Year, Lisbon Faculty of Medicine, Lisbon, Portugal
- 2005 “Health Externalities: How Illness and Health Care in One Spouse Affect the Survival of the Other,” Davis Lecture, University of Chicago, Chicago, IL
- 2006 “The Possible Effects of Pain and Pain Relief on Family Members,” University of Bristol, Bristol, UK
- 2006 “The Role of Prognosis in Clinical Care,” Zuckerman Lecture, Mt. Auburn Hospital, Cambridge, MA
- 2006 “Inter-Personal Health Effects in Dyadic and Hyper-Dyadic Social Networks,” Harvard School of Public Health, Boston, MA
- 2006 “How Illness and Health Care in One Spouse Affect the Survival of the Other,” Internationally Distinguished Speaker Series, Cleveland Clinic Foundation, Cleveland, OH
- 2007 “The Epidemic Spread of Health Behavior in a Complex, Longitudinally Resolved Social Network,” Condensed Matter Seminar, Department of Physics, University of Notre Dame, South Bend, IN
- 2007 “The Epidemic Spread of Obesity in a Large Social Network Over 32 Years,” Kennedy School of Government, Harvard University, Cambridge, MA
- 2007 “The Spread of Obesity in a Large Social Network Over 32 Years,” Human Nutrition Research Center, Tufts University, Boston, MA

- 2007 “Inter-Personal Health Effects: The Spread of Health Behaviors in Social Networks,” Harvard Program on Asian and International Relations Annual Meeting, Beijing, China
- 2007 “Inter-Personal Health Effects and Social Inequality,” Harvard Program on Asian and International Relations Annual Meeting, Beijing, China
- 2007 “Reflections on the Media Coverage of ‘The Spread of Obesity,’” College of Communication, Boston University, Boston, MA
- 2007 “The Spread of Health Behaviors in Social Networks,” National Advisory Council on Aging, NIH, Bethesda, MD
- 2007 “The Spread of Obesity and Health Behaviors in a Complex, Longitudinally Resolved Social Network,” Plenary Address, International Conference on Complex Systems (ICCS 2007), Boston, MA
- 2007 “The Spread of Health Phenomena Within Complex Social Networks,” Center for Health Equity Studies, Stockholm University, Stockholm, Sweden
- 2007 “Some Thoughts on the Rise of Social Science Data Complexity,” Meeting on Computational Social Science, Harvard University, Cambridge, MA
- 2008 “Eat, Drink, and Be Merry: The Spread of Health Phenomena in Social Networks,” Department of Epidemiology, Harvard School of Public Health, Boston, MA
- 2008 “Eat, Drink, and Be Merry: The Spread of Health Phenomena in Social Networks,” Institute for Social and Economic Research and Policy, Columbia University, New York, NY
- 2008 “The Spread of Health Phenomena in Complex Social Networks,” Center for Statistical Sciences, Brown University, Providence, RI
- 2008 “The Spread of Obesity, Substance Use, and Happiness in Longitudinally Resolved Social Networks,” Rockefeller Center for Public Policy and Social Sciences, Dartmouth College, Hanover, NH
- 2008 “Social Contagion and Individual Health,” Office of the Provost, Boston College, Boston, MA
- 2008 “The Spread of Health Phenomena in Complex, Longitudinally Resolved Social Networks,” Program in Evolutionary Dynamics, Harvard University, Cambridge, MA
- 2008 “The Spread of Health Phenomena in Social Networks,” Fourth Annual Poretzky Lecture, Beth Israel Medical Center, New York, NY
- 2008 “Person-to-Person Spread of Health Behaviors in a Large Social Network,” Behavioral and Social Science Research Annual Lecture Series, Office of Behavioral and Social Science Research, National Institutes of Health, Bethesda, MD
- 2008 “Eat, Drink, and Be Merry: The Spread of Health Phenomena in Social Networks,” Department of Sociology, Princeton University, Princeton, NJ
- 2008 “Eat, Drink, and Be Merry: The Spread of Health Phenomena in Social Networks,” Applied Statistics Workshop, Institute for Quantitative Social Science, Harvard University, Cambridge, MA
- 2008 “The Spread of Health Phenomena in Complex, Longitudinally Resolved Social Networks,” Systems Biology Department, Harvard Medical School, Boston, MA
- 2008 “Examining New, Evolving Social Networks,” Meeting on Methodology for Empirical Research on Social Interactions, Social Networks, and Health, Harvard University, Cambridge, MA
- 2008 “Eat, Drink, and Be Merry: The Spread of Health Phenomena in Social Networks,” Keynote Address, Conference on the Empirical Analysis of Networks, University of Alicante, Alicante, Spain

- 2008 “The Interpersonal Spread of Health Behaviors in Social Networks,” Keynote Address, Health in Aging Conference, Dublin, Ireland
- 2008 “Eat, Drink, and Be Merry: The Spread of Obesity, Substance Use, and Happiness in Longitudinally Resolved Social Networks,” Opening Keynote Address, NetSci08 Conference, Norwich, UK
- 2008 “Eat, Drink, and Be Merry: The Spread of Health Phenomena in Social Networks,” 37<sup>th</sup> Annual Merrimon Lecture, University of North Carolina School of Medicine, Raleigh, NC
- 2008 “The Spread of Health Phenomena in Complex, Longitudinally Resolved Social Networks,” Carolina Population Center Annual Distinguished Lecture, University of North Carolina, Raleigh, NC
- 2008 “Eat, Drink, and Be Merry: The Spread of Health Phenomena in Social Networks,” Grand Rounds, Department of Medicine, Beth Israel Hospital, Boston, MA
- 2009 “Eat, Drink, and Be Merry: The Spread of Health Phenomena in Complex, Longitudinally Resolved Social Networks,” Keynote Address, German Physical Society Annual Meeting, Dresden, Germany
- 2009 “Genetic Basis for Social Network Structure and Social Aspects of Social Network Function,” Department of Economics, Cambridge University, Cambridge, UK, and Microsoft Research, Cambridge, UK
- 2009 “The Spread of Health Phenomena Across Complex, Longitudinally Evolving Social Networks,” Department of Physics, Harvard University, Cambridge, MA
- 2009 “The Spread of Happiness in Social Networks,” Federal Reserve Bank of San Francisco, San Francisco, CA
- 2009 “Genetic Basis for Social Network Structure and Social Aspects of Social Network Function,” Department of Epidemiology, Oxford University, Oxford, UK
- 2009 “Genetic Basis for Social Network Structure and Social Aspects of Social Network Function,” Saïd Business School, Oxford University, Oxford, UK
- 2009 “Connected: The Surprising Power of Our Social Networks and How They Shape Our Lives,” Nuffield College, Oxford University, Oxford, UK
- 2010 “The Spread of Health Phenomena in Longitudinally Resolved Social Networks,” National Institute of Drug Abuse, Bethesda, MD
- 2010 “Connected: The Spread of Health Phenomena in Social Networks,” University of Pennsylvania, Philadelphia, PA
- 2010 “The Human Superorganism,” TED (Technology, Entertainment, Design), Long Beach, CA
- 2010 “Connected: The Amazing Power of Our Social Networks and How They Shape Our Lives,” RSA (Royal Society for the Encouragement of Arts, Manufacturers, and Commerce), London, UK
- 2010 “Connected,” The Oxford Union, Oxford, UK
- 2010 “Connected,” The Hellenic-American Union, Athens Greece
- 2010 “Eat, Drink, and Be Merry: The Spread of Health Phenomena in Social Networks,” National Conference on Public Health, Athens, Greece
- 2010 “Connected: The Spread of Health Phenomena in Social Networks,” Russell Sage Foundation, New York City, NY
- 2010 “Human Social Networks as a Foundation for Public Health,” Grand Rounds on the Future of Public Health, Mailman School of Public Health, Columbia University, New York City, NY
- 2010 “Social Networks and Health,” Eighth Annual CHB Lecture, Syracuse University, Syracuse, NY
- 2010 “The Genetic Basis for Social Networks,” Department of Genetics, Harvard Medical School, Boston, MA

- 2010 “Why Social Networks Are Like Carbon,” Cambridge Science Festival, Cambridge, MA
- 2010 “Social Networks as Sensors for Early Detection of Contagious Outbreaks,” Program in Evolutionary Dynamics, Harvard University, Cambridge, MA
- 2010 “New Insights into the Role of Social Networks in Human Behavior,” National Academy of Science, Washington, DC
- 2010 “Predicting Contagions,” TED (Technology, Entertainment, Design), Cannes, France
- 2010 “The Role of Social Networks in Changing Human Behavior,” Gates Foundation, Seattle, WA
- 2010 “Connected: How Relationships Shape Our Health,” The California Endowment, Los Angeles, CA
- 2010 “Using Social Networks to Improve Health,” TEDx, Nashville, TN
- 2010 “The Relevance of Social Networks to Smoking Behavior,” Keynote Address, American Legacy Foundation, Washington, DC
- 2010 “Connected: The Surprising Power of Our Social Networks and How They Shape Our Lives,” Hrvatski Telekom Annual Meeting, Zagreb, Croatia
- 2010 “Social Networks Offline,” IBM Research, Cambridge, MA
- 2011 “Social Networks Offline,” Distinguished Lecture Series, Department of Computer Science, University of Toronto, Toronto, Canada
- 2011 “Connected: Understanding and Using Social Networks in Health,” R.C. Fox Lecture, Department of Medicine, University of Pennsylvania, Philadelphia, PA
- 2011 “Genetic Antecedents and Genetic Consequences of Human Social Networks,” Department of Genetics, Harvard Medical School, Boston, MA
- 2011 “Two New Topics in Network Science: The Genetic Antecedents of Social Networks, and Using Social Networks as Sensors for Epidemics,” Department of Sociology, Cornell University, Ithaca, NY
- 2011 “New Topics in Social Network Science,” Engineering Systems Division, MIT, Cambridge, MA
- 2011 “Connected: The Hidden Influence of Social Networks,” Keynote Address, International Conference of Innovative Cities, Curitiba, Parana, Brazil
- 2011 “Genetic Antecedents and Genetic Consequences of Human Social Networks,” Plenary Address, Interdisciplinary Workshop on Information and Decisions in Social Networks, MIT, Cambridge, MA
- 2011 “Social Networks and Evolution,” Department of Molecular and Cellular Biology, Harvard University, Cambridge, MA
- 2011 “The Biological Bases and Consequences of Social Networks: Are We Wired to Share Risks?” Swiss Federal Institute of Technology, Zurich, Switzerland
- 2011 “The Evolutionary Significance of Human Social Networks,” Plenary Address, Workshop on Information in Networks, New York University, New York, NY
- 2011 “The Evolutionary Significance of Human Social Networks,” MIT Media Lab, MIT, Cambridge, MA
- 2011 “Human Social Networks in Real and Evolutionary Time,” 22nd Annual Lyle Lanier Lecture, University of Illinois, Champaign, IL
- 2011 “Applying Social Network Interventions in the Developing World,” Plenary Address, Gates Foundation, Seattle, WA
- 2012 “Social Networks and Human Evolution,” Plenary Address, Gallup Organization, Washington, DC
- 2012 “Social Networks for Disease Detection,” Harvard International Conference on Digital Disease Detection, Keynote Address, Boston, MA
- 2012 “Social Networks and Human Evolution,” Morse College, Yale University, New Haven, CT

- 2012 “Social Networks and Human Evolution,” Northeastern University, Boston, MA
- 2012 “Social Networks and Human Evolution,” Department of Sociology, Yale University, New Haven, CT
- 2012 “Social Network Structure and Function Across Space and Time,” University of Pennsylvania, Philadelphia, PA
- 2012 “The Framingham Heart Study Social Network Analyses: A Look Back at Year Five,” Framingham Heart Study, Framingham, MA
- 2012 “Social Network Structure and Function Across Space and Time,” University of Pennsylvania, Philadelphia, PA
- 2012 “The Evolutionary Significance of Human Social Networks,” Population Center, Harvard University, Cambridge, MA
- 2012 “Will Technology Make Us Healthier?” Aspen Ideas Festival, Aspen, CO
- 2012 “Social Networks and Human Evolution,” Calleva Lecture, Magdalen College, Oxford University, Oxford, UK
- 2012 “Social Networks, Cooperation and Human Evolution,” Social Neuroscience Symposium, Harvard University, Cambridge, MA
- 2013 “Social Network Interventions,” White House, Council of Economic Advisors, Washington, DC
- 2013 “The Evolutionary Origins of Homophily,” Gordon Conference on Behavior, Evolution, and Neurobiology, West Dover, VT
- 2013 “The Science of Social Connections,” Edge HeadCon Event, Bethlehem, CT
- 2013 “Connected: The Surprising Power of Our Social Networks,” WE Summit, Shenzhen, China
- 2014 “Connected: The Surprising Power of Our Social Networks,” City of Hope Cancer Center, Los Angeles, CA
- 2014 “Connected: The Surprising Power of Our Social Networks,” Wesleyan University, Middletown, CT
- 2014 “Social Network Interventions,” Dartmouth College, Hannover, NH
- 2014 “Shaking Up the Social Sciences? A New Kind of Science for the 21st Century” Aspen Ideas Festival, Aspen, CO
- 2014 “Social Network Interventions,” Majlis Keynote Speaker, Crown Prince Court, Abu Dhabi, UAE
- 2014 “Social Network Interventions,” Stanford Business School, Stanford University, Stanford, CA
- 2014 “Social Network Targeting,” Ogilvy & Mather, London, UK
- 2014 “Do We Need to Shake Up the Social Sciences,” London School of Economics, London, UK
- 2014 “Structure and Function of Human Social Networks,” Distinguished Lecture, Warwick University, Warwick, UK
- 2014 “Social Network Interventions,” Dean’s Lecture, Cass Business School, City University, London, UK
- 2014 “Social Network Interventions,” Allman Lecture, Southern Methodist University, Dallas, TX
- 2014 “Social Network Interventions,” L2 Forum, New York City, NY
- 2015 “The Hidden Power of Social Networks,” Keynote Speaker, Arab Social Media Summit, Dubai, UAE
- 2014 “Social Network Interventions,” Yale Science and Engineering Forum, Yale University, New Haven, CT
- 2015 “The Hidden Influence of Social Networks,” African Women’s Leadership Program, Yale University, New Haven, CT



- 2015 “The Evolutionary Significance of Human Social Networks,” Plenary Address, International Conference on Computational Social Science, Helsinki, Finland
- 2015 “Connected,” Freshman Address, Dartmouth University, Hanover, NH
- 2016 “Social Networks for Good,” National Institute of Social Sciences Annual Meeting, New York, NY
- 2016 “Social Network Interventions for Health and Well Being,” APAC Forum, Sydney, Australia
- 2016 “Human Cooperation in Online Networks in the Face of Inequality and Autonomous Agents (Bots),” Black Dog Institute, University of New South Wales, Sydney, Australia
- 2016 “Using Social Networks for Good,” Charles Perkins Annual Oration, University of Sydney, Sydney, Australia
- 2016 “Social Network Experiments,” Chinese University of Hong Kong, Hong Kong
- 2016 “Using Social Networks for Good,” Hong Kong University of Science & Technology, Hong Kong
- 2016 “21<sup>st</sup> Century Social Science,” *Nature* Editorial Offices, London, UK
- 2017 “Social Network Interventions,” Cornell Technicon Campus, New York, NY
- 2017 “Using Bots Online to Affect Human Behavior,” Robert Wood Johnson Foundation, Princeton, NJ
- 2017 “Health Behaviors and Social Network Interventions,” Columbia Mailman School of Public Health, New York, NY

#### **Names of Main Advisees and Trainees (with recent positions):**

- 1995-01 T. Jack Iwashyna, MD, PhD, Associate Professor of Medicine, University of Michigan, Ann Arbor, Michigan
- 1997-02 Virginia Chang, MD, PhD, Associate Professor of Medicine, New York University, New York, NY
- 1998-00 Elizabeth Lamont, MD, MA, Associate Professor of Medicine, Harvard Medical School, Boston, MA
- 1998-01 Danielle Harvey, PhD, Associate Professor of Statistics, University of California, Davis
- 1999-02 Ming Wen, PhD, Associate Professor of Sociology, University of Utah, Salt Lake City, UT
- 2003-06 Felix Elwert, PhD, Associate Professor of Sociology, University of Wisconsin
- 2005-07 Lei Jin, PhD, Assistant Professor of Sociology, Chinese University of Hong Kong, Hong Kong
- 2005-09 Marcus Alexander, formerly PhD student (Government), Harvard University, Cambridge, MA
- 2005-08 Pete Dewan, PhD, Chief Technology Officer, ActivateNetworks, Cambridge, MA
- 2006-08 Damon Centola, PhD, Associate Professor, Annenberg School of Communication, University of Pennsylvania, Philadelphia, PA
- 2006-10 Mark Pachucki, PhD, Assistant Professor of Sociology, University of Massachusetts, Amherst, MA
- 2008-11 Sam Arbesman, PhD, Senior Scholar, Kauffman Foundation
- 2008-11 Niels Rosenquist, MD, PhD, Instructor, Department of Psychiatry, Massachusetts General Hospital, Boston, MA
- 2008-11 Jonathan Beauchamp, PhD, Assistant Professor, Department of Economics, University of Toronto, Toronto, Canada

2009-11 Jukka-Pekka Onnela, PhD, Assistant Professor, Department of Biostatistics, Harvard School of Public Health, Boston, MA

2009-12 Coren Apicella, PhD, Assistant Professor, Department of Psychology, University of Pennsylvania, Philadelphia, PA

2011-12 Feng Fu, PhD, Assistant Professor of Applied Math, Dartmouth College, Hanover, NH

2008-12 Davene Wright, Assistant Professor of Pediatrics, University of Washington

2008-15 Jessica Perkins, Graduate Student, Harvard University

2008-14 Sae Takada, Graduate Student, Harvard University

2010-15 David Kim, Graduate Student, Harvard University

2010-15 Alison Hwong, Graduate Student, Harvard University

2010-14 Andrey Liscovich, Graduate Student, Harvard University

2014-16 Akihiro Nishi, Assistant Professor of Epidemiology, UCLA, Los Angeles, CA

2014-16 James Williams, Graduate Student, Yale University

2014- Hirokazu Shirado, Graduate Student, Yale University

2014- David Gelvez Alvarez, Graduate Student, Yale University

2015- Maggie Treager, Graduate Student, Yale University

2015- Jacob Derechin, Graduate Student, Yale University

2016- Yongren Shi, Postdoctoral Fellow, Yale University

2016- Alexander Isakov, Postdoctoral Fellow, Yale University

**PART III: Bibliography**

Original, Peer Reviewed Articles:

- 1 N.A. Christakis, “Do Medical Student Research Subjects Need Special Protection?” *IRB: A Review of Human Subjects Research* 7(3): 1-4 (June 1985)
- 2 B. Kachar, N.A. Christakis, T.S. Reese, and N.J. Lane, “The Intramembrane Structure of Septate Junctions Based on Direct Freezing,” *Journal of Cell Science* 80(1): 13-28 (February 1986)
- 3 N.A. Christakis and M.J. Panner, “Baby Fae and the Media: How the Law Allows Appropriate Access,” *IRB: A Review of Human Subjects Research* 8(2): 5-7 (April 1986)
- 4 M.J. Panner and N.A. Christakis, “The Limits of Science in On-The-Job Drug Screening,” *Hastings Center Report* 16(6): 7-12 (December 1986); partially reprinted in *Drug Abuse*, J.S. Bach, ed., St. Paul, MN: Greenhaven Press, 1988, p. 106-111
- 5 N.A. Christakis, “Should IRB’s Monitor Research More Strictly?” *IRB: A Review of Human Subjects Research* 10(2): 8-10 (April 1988)
- 6 N.A. Christakis, “The Ethical Design of an AIDS Vaccine Trial in Africa,” *Hastings Center Report* 18(3): 31-37 (June 1988); reprinted in *Applied Ethics: A Multicultural Approach*, L. May and S.C. Sharratt, eds., Englewood Cliffs, NJ: Prentice-Hall, 1994, p. 421-430
- 7 N.A. Christakis, “Responding to a Pandemic: International Interests in AIDS Control,” *Daedalus* 118(2): 113-134 (Spring 1989); reprinted in *Living with AIDS*, S.R. Graubard, ed., Cambridge, MA: MIT Press, 1990, p. 329-351
- 8 N.A. Christakis and M.J. Panner, “Appropriate Collaboration Between Industry and Government in the Development of an AIDS Vaccine,” *Law, Medicine & Health Care* 17(2): 130-138 (Summer 1989)
- 9 N.A. Christakis, L.A. Lynn, and A. Castelo, “Clinical AIDS Research that Evaluates Cost-Effectiveness in the Developing World,” *IRB: A Review of Human Subjects Research* 13(4): 6-8 (August 1991)
- 10 N.A. Christakis and M.J. Panner, “Existing International Ethical Guidelines for Human Subjects Research: Some Open Questions,” *Law, Medicine & Health Care* 19(3-4): 214-221 (Winter 1991); partially reprinted in *Emerging Policies for Biomedical Research*, W.N. Kelley, M. Osterweis, E. Rubin, eds., Washington, DC: Association of Academic Health Centers, 1993
- 11 E.T. Ryan, J.L. Ecker, N.A. Christakis, and J. Folkman, “Hirschsprung’s Disease: Associated Abnormalities and Demography,” *Journal of Pediatric Surgery* 27(1): 76-81 (January 1992)
- 12 N.A. Christakis, “Ethics Are Local: Engaging Cross-Cultural Variation in the Ethics for Clinical Research,” *Social Science and Medicine* 35(9): 1079-1091 (October 1992); partially reprinted in *Ethical and Regulatory Aspects of Clinical Research*, E. Emanuel, R. Crouch, J. Arras, J. Moreno, and C. Grady, eds., Baltimore: Johns Hopkins University Press, 2003.

- 13 N.A. Christakis and D.A. Asch, "Biases in How Physicians Choose to Withdraw Life Support," *The Lancet* 342(8872): 642-646 (September 1993); reprinted in *Monash Bioethics Review* 13(3): 24-33 (July 1994)
- 14 K.A. Schulman, R. McDonald, I. Frank, L.A. Lynn, N.A. Christakis, and J.S. Schwartz, "Screening Surgeons for HIV Infection: Assessment of a Potential Public Health Program," *Infection Control and Hospital Epidemiology* 15(3): 147-155 (March 1994)
- 15 D.A. Asch and N.A. Christakis, "Different Response Rates in a Trial of Two Envelope Styles in Mail Survey Research," *Epidemiology* 5(5): 364-365 (May 1994)
- 16 N.A. Christakis, "Timing of Referral of Terminally Ill Patients to an Outpatient Hospice," *Journal of General Internal Medicine* 9(6): 314-320 (June 1994)
- 17 P.D. Allison and N.A. Christakis, "Logit Models for Sets of Ranked Items," *Sociological Methodology* 24: 199-228 (Summer 1994)
- 18 C. Feudtner, D.A. Christakis, and N.A. Christakis, "Do Clinical Clerks Suffer Ethical Erosion? Students' Perceptions of Their Ethical Environment and Their Personal Development," *Academic Medicine* 69(8): 670-679 (August 1994)
- 19 N.A. Christakis, J.A. Jacobs, and C.M. Messikomer, "Change in Self-Definition from Specialist to Generalist in a National Sample of Physicians," *Annals of Internal Medicine* 121(9): 669-675 (November 1994)
- 20 N.A. Christakis and D.A. Asch, "Physician Characteristics Associated with Decisions to Withdraw Life Support," *American Journal of Public Health* 85(3): 367-372 (March 1995)
- 21 N.A. Christakis, "The Similarity and Frequency of Proposals to Reform U.S. Medical Education: Constant Concerns," *JAMA* 274(9): 706-711 (September 1995)
- 22 N.A. Christakis and D.A. Asch, "Medical Specialists Prefer to Withdraw Familiar Technologies When Discontinuing Life Support," *Journal of General Internal Medicine* 10(9): 491-494 (September 1995)
- 23 R.C. Fox and N.A. Christakis, "Perish and Publish: Non-Heart-Beating Organ Donation and Unduly Iterative Ethical Review," *Kennedy Institute of Ethics Journal* 5(4): 335-342 (December 1995)
- 24 D.A. Asch and N.A. Christakis, "Why Do Physicians Prefer to Withdraw Some Forms of Life Support Over Others? Intrinsic Attributes of Life Sustaining Treatments Are Associated with Physicians' Preferences," *Medical Care* 34(2): 103-111 (February 1996)
- 25 N.A. Christakis and G.A. Sachs, "The Role of Prognosis in Clinical Decision Making," *Journal of General Internal Medicine* 11(7): 422-425 (July 1996)
- 26 N.A. Christakis and J.J. Escarce, "Survival of Medicare Patients After Enrollment in Hospice Programs," *New England Journal of Medicine* 335(3): 172-178 (July 1996); partially reprinted in A.O. Berg, *Year Book of Family Practice*, St. Louis, MO: Mosby-Year Book, Inc., 1998.

- 27 N.A. Christakis, "The Ellipsis of Prognosis in Modern Medical Thought," *Social Science and Medicine* 44(3): 301-315 (February 1997)
- 28 D.A. Asch, M.K. Jedrzewski, and N.A. Christakis, "Response Rates to Mail Surveys Published in Medical Journals," *Journal of Clinical Epidemiology* 50(10): 1129-1136 (October 1997)
- 29 D.A. Asch, N.A. Christakis, and P.A. Ubel, "Conducting Physician Mail Surveys on a Limited Budget: A Randomized Trial Comparing \$2 Bill Versus \$5 Bill Incentives," *Medical Care* 36(1): 95-99 (January 1998)
- 30 N.A. Christakis and T.J. Iwashyna, "Spousal Illness Burden Is Associated with Delayed Use of Hospice Care in Terminally Ill Patients," *Journal of Palliative Medicine* 1(1): 3-10 (March 1998)
- 31 N.A. Christakis, "Predicting Patient Survival Before and After Hospice Enrollment," *The Hospice Journal* 13(1-2): 71-87 (March 1998)
- 32 T.J. Iwashyna and N.A. Christakis, "Attitude and Self-Reported Practice Regarding Hospice Referral in a National Sample of Internists," *Journal of Palliative Medicine* 1(3): 241-248 (September 1998)
- 33 N.A. Christakis and T.J. Iwashyna, "Attitude and Self-Reported Practice Regarding Prognostication in a National Sample of Internists," *Archives of Internal Medicine* 158 (21): 2389-2395 (November 1998)
- 34 T.J. Iwashyna, J. Zhang, D. Lauderdale, and N.A. Christakis, "A Methodology for Identifying Married Couples in Medicare Data: Mortality, Morbidity, and Health Care Use Among the Married Elderly," *Demography* 35(4): 413-419 (November 1998)
- 35 E.B. Lamont and N.A. Christakis, "Some Elements of Prognosis in Terminal Cancer," *Oncology* 13(8): 1165-1170 (August 1999)
- 36 D.A. Asch, K. Faber-Langendoen, J.A. Shea, and N.A. Christakis, "The Sequence of Withdrawing Life-Sustaining Treatment from Patients," *American Journal of Medicine* 107(2): 153-156 (August 1999)
- 37 E. Becher and N.A. Christakis, "Firearm Injury Prevention Counseling: Are We Missing the Mark?" *Pediatrics* 104(3): 530-535 (September 1999)
- 38 T.J. Iwashyna, N.A. Christakis, and L.B. Becker, "Neighborhoods Matter: A Population-Based Study of Provision of Cardiopulmonary Resuscitation," *Annals of Emergency Medicine* 34(4): 459-468 (October 1999)
- 39 J. Zhang, T.J. Iwashyna, N.A. Christakis, "The Performance of Different Lookback Periods and Sources of Information for Charlson Comorbidity Adjustment in Medicare Claims," *Medical Care* 37(11): 1128-1139 (November 1999)
- 40 N.A. Christakis, "Prognostication and Bioethics," *Daedalus* 128(4): 197-214 (Fall 1999)
- 41 N.A. Christakis and E.B. Lamont, "Extent and Determinants of Error in Doctors' Prognoses for Terminally Ill Patients: Prospective Cohort Study," *British Medical Journal* 320(7233): 469-

- 473 (February 2000); reprinted in *The Western Journal of Medicine* 172(5): 310-313 (May 2000)
- 42 K.E. Steinhauser, E.C. Clipp, M. McNeilly, N.A. Christakis, L.M. McIntyre, and J.A. Tulsky, "In Search of a Good Death: Observations of Patients, Families, and Providers," *Annals of Internal Medicine* 132(10): 825-832 (May 2000)
  - 43 N.A. Christakis and T.J. Iwashyna, "The Impact of Individual and Market Factors on the Timing of Initiation of Hospice Terminal Care," *Medical Care* 38(5): 528-541 (May 2000)
  - 44 T.J. Iwashyna, J. Zhang, D. Lauderdale, and N.A. Christakis, "Refinements of a Methodology for Detecting Married Couples in the Medicare Data," *Demography* 37(2): 251-252 (May 2000)
  - 45 K.E. Steinhauser, N.A. Christakis, E.C. Clipp, M. McNeilly, L. McIntyre, and J.A. Tulsky, "Factors Considered Important at the End of Life by Patients, Family, Physicians, and Other Care Providers," *JAMA* 284(19): 2476-2482 (November 2000)
  - 46 E.B. Lamont and N.A. Christakis, "Prognostic Disclosure to Patients with Cancer Near the End of Life," *Annals of Internal Medicine* 133(12): 1096-1105 (June 2001)
  - 47 V.W. Chang and N.A. Christakis, "Extent and Determinants of Discrepancy Between Self-Evaluations of Weight Status and Clinical Standards," *Journal of General Internal Medicine* 16(8): 538-543 (August 2001)
  - 48 K.E. Steinhauser, N.A. Christakis, E.C. Clipp, M. McNeilly, S. Grambow, J. Parker, and J.A. Tulsky, "Preparing for the End of Life: Preferences of Patients, Families, Physicians, and Other Care Providers," *Journal of Pain and Symptom Management* 22(3): 727-737 (September 2001)
  - 49 E.B. Lamont, D.S. Lauderdale, R.L. Schilsky, and N.A. Christakis, "Construct Validity of Medicare Chemotherapy Claims: The Case of 5FU," *Medical Care* 40(3): 201-211 (March 2002)
  - 50 V.W. Chang and N.A. Christakis, "Medical Modeling of Obesity: A Transition from Action to Experience in a 20<sup>th</sup> Century American Medical Textbook," *Sociology of Health and Illness* 24(2): 151-177 (March 2002)
  - 51 E.B. Lamont and N.A. Christakis, "Physician Factors in the Timing of Cancer Patient Referral to Hospice Palliative Care," *Cancer* 94(10): 2733-2737 (May 2002)
  - 52 N.A. Christakis, T.J. Iwashyna, and J.X. Zhang, "Care After the Onset of Serious Illness (COSI): A Novel Claims-Based Dataset Exploiting Substantial Cross-Set Linkages to Study End-of-Life Care," *Journal of Palliative Medicine* 5(4): 515-529 (August 2002)
  - 53 T.J. Iwashyna, J.X. Zhang, and N.A. Christakis, "Disease-Specific Patterns of Hospice and Related Healthcare Use in an Incidence Cohort of Seriously Ill Elderly Patients," *Journal of Palliative Medicine* 5(4): 531-538 (August 2002)
  - 54 T.J. Iwashyna, F. Curlin, and N.A. Christakis, "Racial, Ethnic, and Affluence Differences in Elderly Patients' Use of Teaching Hospitals," *Journal of General Internal Medicine* 17(9): 696-703 (September 2002)

- 55 T.J. Iwashyna, G. Brennan, J.X. Zhang, and N.A. Christakis, "Finding Married Couples in Medicare Claims Data," *Health Services and Outcomes Research Methodology* 3(1): 75-86 (December 2002)
- 56 T.J. Iwashyna, V.W. Chang, J.X. Zhang, and N.A. Christakis, "The Lack of Effect of Market Structure on Hospice Use," *Health Services Research* 37(6): 1531-1551 (December 2002)
- 57 K.E. Steinhauser, H.B. Bosworth, E.C. Clipp, M. McNeilly, N.A. Christakis, J. Parker, and J.A. Tulsky, "Initial Assessment of a New Instrument to Measure Quality of Life at the End of Life," *Journal of Palliative Medicine* 5(6): 829-841 (December 2002)
- 58 V.W. Chang and N.A. Christakis, "Self-Perception of Weight Appropriateness in the U.S.," *American Journal of Preventive Medicine* 24(4): 332-339 (May 2003)
- 59 E.B. Lamont, N.A. Christakis, and D.S. Lauderdale, "Favorable Cardiovascular Risk Among Elderly Breast Carcinoma Survivors," *Cancer* 98(1): 2-10 (July 2003)
- 60 E.B. Lamont and N.A. Christakis, "Complexities in Prognostication in Advanced Cancer," *JAMA* 290(1): 98-104 (July 2003)
- 61 P. Glare, K. Virik, M. Jones, M. Hudson, S. Eychmuller, J. Simes, and N.A. Christakis, "A Systematic Review of Physicians' Survival Predictions in Terminally Ill Cancer Patients," *British Medical Journal* 327(7408): 195-200 (July 2003)
- 62 N.A. Christakis and T.J. Iwashyna, "The Health Impact on Families of Health Care: A Matched Cohort Study of Hospice Use by Decedents and Mortality Outcomes in Surviving, Widowed Spouses," *Social Science and Medicine* 57(3): 465-475 (August 2003)
- 63 T.J. Iwashyna and N.A. Christakis, "Marriage, Widowhood, and Health Care Use," *Social Science and Medicine* 57(11): 2137-2147 (December 2003)
- 64 K. E. Steinhauser, E. C. Clipp, H. B. Bosworth, M. McNeilly, N.A. Christakis, C. I. Voils, and J.A. Tulsky, "Measuring Quality of Life at the End of Life: Validation of the QUAL-E," *Palliative and Supportive Care*, 2(2): 3-14 (March 2004).
- 65 N.A. Christakis, "Social Networks and Collateral Health Effects – Have Been Ignored in Medical Care and Clinical Trials, But Need to Be Studied," *British Medical Journal* 329(7459): 184-185 (July 2004)
- 66 V.W. Chang and N.A. Christakis, "Income Inequality and Weight Status in U.S. Metropolitan Areas," *Social Science and Medicine* 61(1): 83-96 (July 2005)
- 67 E.B. Lamont, J.E. Herndon, J. C. Weeks, I.C. Henderson, R. Lilenbaum, R.L. Schilsky, and N.A. Christakis, for the Cancer and Leukemia Group B, "Criterion Validity of Medicare Chemotherapy Claims in Cancer and Leukemia Group B Breast and Lung Cancer Trial Participants," *Journal of the National Cancer Institute* 97(14): 1080-1083 (July 2005)
- 68 M. Wen and N.A. Christakis, "Neighborhood Effects on Post-Hospitalization Mortality: A Population-Based Cohort Study of the Elderly in Chicago," *Health Services Research* 40(4): 1108-1127 (August 2005)

- 69 M. Wen, K.A. Cagney, and N.A. Christakis, "Effect of Specific Aspects of Community Social Environment on the Mortality of Individuals Diagnosed with Serious Illness," *Social Science and Medicine* 61(6): 1119-1134 (September 2005)
- 70 M. Maltoni, A. Caraceni, C. Brunelli, B. Broeckaert, N.A. Christakis, S. Eychmueller, P. Glare, M. Nabal, A. Viganò, P. Larkin, F. De Conno, G. Hanks, and S. Kaasa, "Prognostic Factors in Advanced Cancer Patients: Evidence-Based Clinical Recommendations," *Journal of Clinical Oncology* 23(25): 6240-6248 (September 2005)
- 71 K.E. Steinhauser, C.I. Voils, E.C. Clipp, H.B. Bosworth, N.A. Christakis, and J.A. Tulsky, "'Are You at Peace?' One Item to Probe Spiritual Concerns at the End of Life," *Archives of Internal Medicine* 166(1): 101-105 (January 2006)
- 72 N.A. Christakis and P.D. Allison, "Mortality After the Hospitalization of a Spouse," *New England Journal of Medicine* 354(7): 719-730 (February 2006)
- 73 F. Elwert and N.A. Christakis, "Widowhood and Race," *ASR: American Sociological Review* 71(1): 16-41 (February 2006)
- 74 M. Wen and N.A. Christakis, "Prospective Effect of Community Distress and Subcultural Orientation on Mortality Following Life-Threatening Disease in Later Life," *Sociology of Health and Illness* 28(5): 558-582 (July 2006)
- 75 P.D. Allison and N.A. Christakis, "Fixed Effects Methods for the Analysis of Non-Repeated Events," *Sociological Methodology* 36(1): 155-172 (Summer 2006)
- 76 E.B. Lamont, J.E. Herndon, J.C. Weeks, I.C. Henderson, C.C. Earle, R.L. Schilsky, and N.A. Christakis, for the Cancer and Leukemia Group B, "Measuring Disease-Free Survival and Cancer Relapse Using Medicare Claims from CALGB Breast Cancer Trial Participants," *Journal of the National Cancer Institute* 98(18): 1335-1338 (September 2006)
- 77 K. E. Steinhauser, E. C. Clipp, J. C. Hays, M. Olsen, R. Arnold, N.A. Christakis, J.H. Lindquist, and J.A. Tulsky, "Identifying, Recruiting, And Retaining Seriously-Ill Patients And Their Caregivers in Longitudinal Research At The End Of Life," *Palliative Medicine* 20(8): 745-754 (December 2006)
- 78 N.A. Christakis and J.H. Fowler, "The Spread of Obesity in a Large Social Network Over 32 Years," *New England Journal of Medicine* 357(4): 370-379 (July 2007)
- 79 K. Zivin and N.A. Christakis, "The Emotional Toll of Spousal Morbidity and Mortality," *American Journal of Geriatric Psychiatry* 15(9): 772-779 (September 2007)
- 80 S.R. Connor, F. Elwert, C. Spence, and N.A. Christakis, "Geographic Variation in Hospice Use in the United States in 2002," *Journal of Pain and Symptom Management* 34(3): 277-285 (September 2007)
- 81 S.V. Subramanian, F. Elwert, and N.A. Christakis, "Widowhood and Mortality Among the Elderly: The Modifying Role of Neighborhood Concentration of Widowed Individuals" *Social Science and Medicine* 66(4): 873-884 (February 2008)



- 82 E.B. Lamont, J.E. Herndon, J. C. Weeks, I.C. Henderson, R. Lilenbaum, R.L. Schilsky, and N.A. Christakis, for the Cancer and Leukemia Group B, “Measuring Clinically Significant Chemotherapy-Related Toxicities Using Medicare Claims from Cancer and Leukemia Group B (CALGB) Trial Participants,” *Medical Care* 46(3): 303-308 (March 2008)
- 83 S.R. Connor, F. Elwert, C. Spence, and N.A. Christakis, “Racial Disparity in Hospice Use in the United States in 2002,” *Palliative Medicine* 22(3): 205-213 (April 2008)
- 84 N.A. Christakis and J.H. Fowler, “The Collective Dynamics of Smoking in a Large Social Network,” *New England Journal of Medicine* 358(21): 2249-2258 (May 2008)
- 85 W. Cadge, J. Freese, and N.A. Christakis, “The Provision of Hospital Chaplaincy in the United States: A National Overview,” *Southern Medical Journal* 101(6): 626-630 (June 2008)
- 86 M. Alexander and N.A. Christakis, “Bias and Asymmetric Loss in Expert Forecasts: A Study of Physician Prognostic Behavior with Respect to Patient Survival,” *Journal of Health Economics* 27(4): 1095-1108 (July 2008)
- 87 D.S. Lee, J. Park, K.A. Kay, N.A. Christakis, Z.N. Oltvai, and A.L. Barabasi, “The Implications of Human Metabolic Network Topology for Disease Comorbidity,” *PNAS: Proceedings of the National Academy of Sciences* 105(29): 9880-9885 (July 2008)
- 88 K.P. Smith and N.A. Christakis, “Social Networks and Health,” *Annual Review of Sociology* 34: 405-429 (August 2008)
- 89 J.H. Fowler and N.A. Christakis, “Estimating Peer Effects on Health in Social Networks,” *Journal of Health Economics* 27(5): 1386-1391 (September 2008)
- 90 K. Lewis, J. Kaufman, M. Gonzalez, A. Wimmer, and N.A. Christakis, “Tastes, Ties, and Time: A New (Cultural, Multiplex, and Longitudinal) Social Network Dataset Using Facebook.com,” *Social Networks* 30(4): 330-342 (October 2008)
- 91 F. Elwert and N.A. Christakis, “Wives and Ex-Wives: A New Test for Homogamy Bias in the Widower Effect,” *Demography* 45(4): 851-873 (November 2008)
- 92 F. Elwert and N.A. Christakis, “Variation in the Effect of Widowhood on Mortality by the Causes of Death of Both Spouses,” *American Journal of Public Health* 98(11): 2092-2098 (November 2008)
- 93 D. Davis, N. Chawla, N. Blumm, N.A. Christakis, A.L. Barabasi. “Predicting Individual Disease Risk Based on Medical History,” *Proceedings of the 17th ACM Conference on Information and Knowledge Management (CIKM)* 769-778 (2008)
- 94 K. Lewis, J. Kaufman, and N.A. Christakis, “The Taste for Privacy: An Analysis of College Student Privacy Settings in an Online Social Network,” *Journal of Computer Mediated Communication* 14(1): 79-100 (December 2008)
- 95 J.H. Fowler and N.A. Christakis, “Dynamic Spread of Happiness in a Large Social Network: Longitudinal Analysis Over 20 Years in the Framingham Heart Study,” *British Medical Journal* 2008; 337: a2338 (doi:10.1136/bmj.a2338) (December 2008)

- 96 J.H. Fowler, C.T. Dawes, and N.A. Christakis, "Model of Genetic Variation in Human Social Networks," *PNAS: Proceedings of the National Academy of Sciences* 106(6): 1720-1724 (February 2009)
- 97 N.A. Christakis and J.H. Fowler, "Social Network Visualizations in Epidemiology," *Norwegian Journal of Epidemiology* 19(1): 5-16 (March 2009)
- 98 C.A. Hidalgo, N. Blumm, A.L. Barabasi, and N.A. Christakis, "A Dynamic Network Approach for the Study of Human Phenotypes," *PLoS Computational Biology* 5(4): e1000353. doi:10.1371/journal.pcbi.1000353 (April 2009)
- 99 J. Park, D.S Lee, N.A. Christakis, and A.L. Barabasi, "The Impact of Cellular Networks on Disease Co-Morbidity," *Molecular Systems Biology* 5: Article number: 262 doi:10.1038/msb.2009.16 (April 2009)
- 100 L. Jin and N.A. Christakis, "Investigating the Mechanism of Marital Mortality Reduction: The Transition to Widowhood and Quality of Health Care," *Demography* 46(3): 605-625 (August 2009)
- 101 L.L. Chen, N. Blumm, N.A. Christakis, A.L. Barabasi, T.S. Deisboeck, "Cancer Metastasis Networks and the Prediction of Progression Patterns," *British Journal of Cancer* 101(5): 749-758 (August 2009)
- 102 M. Collins, S. Block, R. Arnold, and N.A. Christakis, "On the Prospects for a Blame-Free Medical Culture," *Social Science and Medicine* 69(9): 1287-1290 (November 2009)
- 103 K.P. Smith and N.A. Christakis, "Association Between Widowhood and Risk of Diagnosis with Sexually Transmitted Infection in Older Adults," *American Journal of Public Health* 99(11): 2055-2062 (November 2009)
- 104 J.T. Cacioppo, J.H. Fowler, and N.A. Christakis, "Alone in the Crowd: The Structure and Spread of Loneliness in a Large Social Network," *Journal of Personality and Social Psychology* 97(6): 977-991 (December 2009)
- 105 Y. Zeng, D. Gu, J. Purser, H. Hoenig, and N.A. Christakis, "Association of Environmental Factors with Elderly Health and Mortality in China," *American Journal of Public Health* 100(2): 298-305 (February 2010)
- 106 J.H. Fowler, and N.A. Christakis, "Cooperative Behavior Cascades in Human Social Networks," *PNAS: Proceedings of the National Academy of Sciences* 107(12): 5334-5338 (March 2010)
- 107 S.C. Mednick, N.A. Christakis, and J.H. Fowler, "The Spread of Sleep Behavior Influences Drug Use in Adolescent Social Networks," *PLoS One* 5(3): e9775 (March 2010)
- 108 J.N. Rosenquist, J. Murabito, J.H. Fowler, and N.A. Christakis, "The Spread of Alcohol Consumption Behavior in a Large Social Network," *Annals of Internal Medicine* 152(7): 426-433 (April 2010)
- 109 D.A. Davis, N.V. Chawla, N.A. Christakis, and A.L. Barabasi, "Time to CARE: A Collaborative Engine for Practical Disease Prediction," *Data Mining and Knowledge Discovery* 20(3): 388-415 (May 2010)

- 110 S. Arbesman and N.A. Christakis, “Leadership Insularity: A New Measure of Connectivity Between Central Nodes in Networks,” *Connections* 30(1): 4-10 (Summer 2010)
- 111 L. Jin, F. Elwert, J. Freese, and N.A. Christakis, “Preliminary Evidence Regarding the Hypothesis that the Sex Ratio at Sexual Maturity May Affect Longevity in Men,” *Demography* 47(3): 579-586 (August 2010)
- 112 N.A. Christakis and J.H. Fowler, “Social Network Sensors for Early Detection of Contagious Outbreaks,” *PLoS One*, 5(9): e12948 (September 2010); <http://dx.doi.org/10.1371/journal.pone.0012948>
- 113 J.E. Settle, C.T. Dawes, Peter K. Hatemi, N.A. Christakis, and J.H. Fowler, “Friendships Moderate an Association Between a Dopamine Gene Variant and Political Ideology,” *Journal of Politics* 72(4): 1189-1198 (October 2010)
- 114 A.L. Hill, D.G. Rand, M.A. Nowak, and N.A. Christakis, “Infectious Disease Modeling of Social Contagion in Networks,” *PLoS Computational Biology* 6(11): e1000968 (November 2010)
- 115 A.L. Hill, D.G. Rand, M.A. Nowak, and N.A. Christakis, “Emotions as Infectious Diseases in a Large Social Network: The SISa Model,” *Proceedings of the Royal Society B* 277(1701): 3827-3835 (December 2010); <http://dx.doi.org/10.1098/rspb.2010.1217>
- 116 J.H. Fowler, J.E. Settle, and N.A. Christakis, “Correlated Genotypes in Friendship Networks,” *PNAS: Proceedings of the National Academy of Sciences* 108(5): 1993-1997 (February 2011); <http://dx.doi.org/10.1073/pnas.1011687108>
- 117 J.N. Rosenquist, J.H. Fowler, and N.A. Christakis, “Social Network Determinants of Depression,” *Molecular Psychiatry* 16(3): 273-281 (March 2011); <http://dx.doi.org/10.1038/mp.2010.13>
- 118 A.J. O’Malley and N.A. Christakis, “Longitudinal Analysis of Large Social Networks: Estimating the Effect of Health Traits on Changes in Friendship Ties,” *Statistics in Medicine* 30(9): 950-964 (April 2011); <http://dx.doi.org/10.1002/sim.4190>
- 119 J.P. Onnela, S. Arbesman, M.C. Gonzalez, A.L. Barabasi, and N.A. Christakis, “Geographic Constraints on Social Network Groups,” *Plos One* 6(4): e16939 (April 2011); <http://dx.doi.org/10.1371/journal.pone.0016939>
- 120 S. Arbesman and N.A. Christakis, “Scaling of Prosocial Behavior in Cities,” *Physica A* 390(11): 2155-2159 (June 2011)
- 121 N.L. Keating, A.J. O’Malley, J.M. Murabito, K.P. Smith, and N.A. Christakis, “Minimal Social Network Effects Evident in Cancer Screening Behavior,” *Cancer* 117(13): 3045-3052 (July 2011)
- 122 M. Barnett, B. Landon, A.J. O’Malley, N.L. Keating, and N.A. Christakis, “Mapping Physician Networks with Self-Reported and Administrative Data,” *Health Services Research* 46(5): 1592-1609 (October 2011); <http://dx.doi.org/10.1111/j.1475-6773.2011.01262.x>

- 123 J.P. Beauchamp, D. Cesarini, M. Johannesson, M.J.H.M van der Loos, P.D. Koellinger, P.J.F. Broenen, J.H. Fowler, J.N. Rosenquist, A.R. Thurik, and N.A. Christakis, "Molecular Genetics and Economics," *Journal of Economic Perspectives*, 25(4): 57-82 (Fall 2011)
- 124 M. Pachucki, P.F. Jacques, and N.A. Christakis, "Social Network Concordance in Food Choice Among Spouses, Friends, and Siblings," *American Journal of Public Health*, 101(11): 2170-2177 (November 2011); <http://dx.doi.org/10.2105/AJPH.2011.300282>
- 125 J. Block, N.A. Christakis, A.J. O'Malley, and S. Subramanian, "Proximity to Food Establishments and Body Mass Index in the Framingham Heart Study Offspring Cohort over 30 Years," *American Journal of Epidemiology*, 174(10): 1108-1114 (November 2011); <http://dx.doi.org/10.1093/aje/kwr244>
- 126 D. Rand, S. Arbesman, and N.A. Christakis, "Dynamic Social Networks Promote Cooperation in Experiments with Humans," *PNAS: Proceedings of the National Academy of Sciences* 108(48): 19193-19198 (November 2011); <http://dx.doi.org/10.1073/pnas.1108243108>
- 127 C.L. Apicella, F.W. Marlowe, J.H. Fowler, and N.A. Christakis, "Social Networks and Cooperation in Hunter-Gatherers," *Nature* 481(7382): 497-501 (January 2012)
- 128 M. Barnett, N.A. Christakis, A.J. O'Malley, J.P. Onnela, N.L. Keating, and B. Landon, "Physician Patient-Sharing Networks and the Cost and Intensity of Care in US Hospitals," *Medical Care* 50(2): 152-160 (February 2012); <http://dx.doi.org/10.1097/MLR.0b013e31822dcef7>
- 129 J.P. Onnela and N.A. Christakis, "Spreading Paths in Partially Observed Social Networks," *Physical Review E* 85(3): 036106 (March 2012)
- 130 K. Strully, J.H. Fowler, J. Murabito, E.J. Benjamin, D. Levy, and N.A. Christakis, "Aspirin Use and Cardiovascular Events in Social Networks," *Social Science and Medicine* 74(7): 1125-1129 (April 2012)
- 131 M. Barnett, N.L. Keating, N.A. Christakis, A.J. O'Malley, and B. Landon, "Reasons for Choice of Referral Physician Among Primary Care and Specialist Physicians," *Journal of General Internal Medicine* 27(5): 506-512 (May 2012)
- 132 A.J. O'Malley, S. Arbesman, D.M. Steiger, J.H. Fowler, and N.A. Christakis, "Egocentric Social Network Structure, Health, and Pro-Social Behaviors in a National Panel Study of Americans," *PLoS ONE* 7(5): e36250 (May 2012); <http://dx.doi.org/10.1371/journal.pone.0036250>
- 133 F. Fu, C.E. Tarnita, N.A. Christakis, L. Wang, D.G. Rand, and M.A. Nowak, "Evolution of In-Group Favoritism," *Nature Scientific Reports* 2: 460 (June 2012); <http://dx.doi.org/10.1038/srep00460>
- 134 N. Gulbahce, H. Yan, A. Dricot, M. Padi, D. Byrdsong, R. Franchi, D.S. Lee, O. Rozenblatt-Rosen, J.C. Mar, M.A. Calderwood, A. Baldwin, B. Zhao, B. Santhanam, P. Braun, N. Simonis, K.W. Huh, K. Hellner, M. Grace, A. Chen, R. Rubio, J.A. Marto, N.A. Christakis, E. Kieff, F.P. Roth, J. Roecklein-Canfield, J.A. Decaprio, M.E. Cusick, J. Quackenbush, D.E. Hill, K. Munger, M. Vidal, A.L. Barabasi. "Viral Perturbations of Host Networks Reflect Disease Etiology," *PLoS Computational Biology* 8(6): e1002531 (June 2012); <http://dx.doi.org/10.1371/journal.pcbi.1002531>

- 135 B.E. Landon, N.L. Keating, M.L. Barnett, J.P. Onnela, S. Paul, A.J. O'Malley, T. Keegan, and N.A. Christakis, "Variation in Patient-Sharing Networks of Physicians Across the United States," *JAMA: Journal of the American Medical Association*, 308(3): 265-273 (July 2012); <http://dx.doi.org/10.1001/jama.2012.7615>
- 136 C.F. Chabris, B.M. Hebert, D.J. Benjamin, J. Beauchamp, D. Cesarini, M. van der Loos, M. Johannesson, P.K. E. Magnusson, P. Lichtenstein, C.S. Atwood, J. Freese, T.S. Hauser, R.M. Hauser, N.A. Christakis, D. Laibson, "Most Reported Genetic Associations with General Intelligence Are Probably False Positives," *Psychological Science* 23(11): 1314-1323 (November 2012); <http://dx.doi.org/10.1177/0956797611435528>
- 137 F. Fu, M. Nowak, N.A. Christakis, and J.H. Fowler, "The Evolution of Homophily," *Nature Scientific Reports* 2: 845 (November 2012); <http://dx.doi.org/10.1038/srep00845>
- 138 J.E. DeNeve, N.A. Christakis, J.H. Fowler, and B.S. Frey, "Genes, Economics, and Happiness," *Journal of Neuroscience, Psychology, and Economics* 5(4): 193-211 (November 2012)
- 139 H.B. Shakya, N.A. Christakis, and J.H. Fowler, "Parental Influence on Substance Use in Adolescent Social Networks," *Archives of Pediatrics and Adolescent Medicine* 166(12): 1132-1139 (December 2012) <http://dx.doi.org/10.1001/archpediatrics.2012.1372>
- 140 N.A. Christakis and J.H. Fowler, "Social Contagion Theory: Examining Dynamic Social Networks and Human Behavior," *Statistics in Medicine* 32(4): 556-577 (February 2013); <http://dx.doi.org/10.1002/sim.5408>
- 141 J.E. DeNeve, S. Mikhaylov, C.T. Dawes, N.A. Christakis, and J.H. Fowler, "Born to Lead? A Twin Design and Genetic Association Study of Leadership Role Occupancy," *Leadership Quarterly* 24(1): 45-60 (February 2013); <http://dx.doi.org/10.1016/j.leaqua.2012.08.001>
- 142 R. McDermott, J.H. Fowler, and N.A. Christakis, "Breaking Up Is Hard to Do, Unless Everyone Else Is Doing It Too: Social Network Effects on Divorce in a Longitudinal Sample," *Social Forces* 92(2): 491-519 (February 2013); <http://dx.doi.org/10.1093/sf/sot096>
- 143 J.P. Block, S.V. Subramanian, N.A. Christakis, and A.J. O'Malley, "Population Trends and Variation in Body Mass Index From 1971 to 2008 in the Framingham Heart Study Offspring Cohort," *PLoS One* 8(5): e63217 (May, 2013); <http://dx.doi.org/10.1371/journal.pone.0063217>
- 144 J.J. Jordan, D.G. Rand, S. Arbesman, J.H. Fowler, and N.A. Christakis, "Contagion of Cooperation in Static and Fluid Social Networks," *PLoS One* 8(6): e66199 (June, 2013); <http://dx.doi.org/10.1371/journal.pone.0066199>
- 145 B.E. Landon, J.P. Onnela, N.L. Keating, M.L. Barnett, S. Paul, A.J. O'Malley, T. Keegan, and N.A. Christakis, "Using Administrative Data to Identify Naturally Occurring Networks of Physicians," *Medical Care* 51 (8): 715-21 (August 2013); <http://dx.doi.org/10.1097/MLR.0b013e3182977991>
- 146 M. Arcaya, M.M. Glymour, P. Chakrabarti, N.A. Christakis, I. Kawachi, and S.V. Subramanian, "Effects of Proximate Foreclosed Properties on Individuals' Weight Gain in Massachusetts, 1987-2008," *American Journal of Public Health* 103 (9): e50-6 (September 2013); <http://dx.doi.org/10.2105/AJPH.2013.301460>

- 147 H. Shirado, F. Fu, J.H. Fowler, and N.A. Christakis, “Quality Versus Quantity of Social Ties in Experimental Cooperative Networks,” *Nature Communications* 4: 2814 (November 2013); <http://dx.doi.org/10.1038/ncomms3814>
- 148 W. Hobbs, N.A. Christakis, and J.H. Fowler, “Widowhood Effects in Voter Participation,” *American Journal of Political Science* 58(1): 1-16 (January 2014) <http://dx.doi.org/10.1111/ajps.12040>
- 149 T.A. Brakefield, S.C. Mednick, H.W. Wilson, J.E. deNeve, N.A. Christakis, and J.H. Fowler, “Same-Sex Sexual Attraction Does Not Spread in Adolescent Social Networks,” *Archives of Sexual Behavior* 43(2): 335-344 (February 2014); <http://dx.doi.org/10.1007/s10508-013-0142-9>
- 150 L. Coviella, Y. Sohn, A.D.I. Kramer, C. Marlow, M. Franceschetti, N.A. Christakis, and J.H. Fowler, “Detecting Emotional Contagion in Massive Social Networks,” *PLoS One* 9(3): e90315 (March 2014); doi:10.1371/journal.pone.0090315
- 151 M. Garcia-Herranz, E.M. Egido, M. Cebrian, N.A. Christakis, and J.H. Fowler, “Using Friends as Sensors to Detect Global-Scale Contagious Outbreaks,” *PLoS One* 9(4): e92413 (April 2014) doi: 10.1371/journal.pone.0092413
- 152 H. Shakya, N.A. Christakis, and J.H. Fowler, “Association Between Social Network Communities and Health Behavior: An Observational Sociocentric Network Study of Latrine Adoption in Rural India,” *American Journal of Public Health* 104(5): 903-907 (May 2014) doi: 10.2105/AJPH.2013.301811
- 153 C.L. Apicella, E.M. Azevedo, N.A. Christakis, and J.H. Fowler, “Evolutionary Origin of the Endowment Effect: Evidence from Hunter-Gatherers,” *American Economic Review* 104(6): 1793-1805 (June 2014); <http://dx.doi.org/10.1257/aer.104.6.1793>
- 154 M. Arcaya, M.M. Glymour, P. Chakrabarti, N.A. Christakis, I. Kawachi, and S.V. Subramanian, “Effects of Proximate Foreclosed Properties on Individuals’ Systolic Blood Pressure in Massachusetts, 1987-2008,” *Circulation* 129(22): 2262-2268 (June 2014) doi: 10.1161/CIRCULATIONAHA.113.006205
- 155 M. Arcaya, M.M. Glymour, N.A. Christakis, I. Kawachi, and S.V. Subramanian, “Individual and Spousal Unemployment as Predictors of Smoking and Drinking Behavior,” *Social Science and Medicine* 110: 89-95 (June 2014) doi: 10.1016/j.socscimed.2014.03.034
- 156 N.A. Christakis and J.H. Fowler, “Friendship and Natural Selection,” *PNAS: Proceedings of the National Academy of Sciences* 111 (Supplement 3): 10796-10801 (July 2014) doi: 10.1073/pnas.1400825111
- 157 A.J. O’Malley, F. Elwert, J.N. Rosenquist, A.M. Zaslavsky, and N.A. Christakis, “Estimating Peer Effects in Longitudinal Dyadic Data Using Instrumental Variables,” *Biometrics* 70: 506-515 (April 2014) doi: 10.1111/biom.12172
- 158 D.G. Rand, M. Nowak, J.H. Fowler, and N.A. Christakis, “Static Network Structure Can Stabilize Human Cooperation,” *PNAS: Proceedings of the National Academy of Sciences* 111 (48): 17093-17098 (December 2014) doi: 10.1073/pnas.1400406111

- 159 J. Perkins, S. Subramanian, and N.A. Christakis, “Social Networks and Health: A Systematic Review of Sociocentric Network Studies in Low- and Middle-Income Countries,” *Social Science and Medicine* 125: 60-78 (January 2015) doi: 10.1016/j.socscimed.2014.08.019. Epub 2014 Aug 19
- 160 H.B. Shakya, N.A. Christakis, and J.H. Fowler, “Social Network Predictors of Latrine Ownership in India,” *Social Science and Medicine* 125: 129-38 (January 2015) doi: 10.1016/j.socscimed.2014.03.009. Epub 2014 Mar 12
- 161 J.N. Rosenquist, A.J. O’Malley, S.F. Lehrer, A. Zaslavsky, J.W. Smoller, and N.A. Christakis, “Cohort of birth modifies the association between FTO genotype and BMI,” *PNAS: Proceedings of the National Academy of Sciences* 112(2): 354-359 (January 2015) doi: 10.1073/pnas.1411893111
- 162 D.A. Kim, A.R. Hwang, D. Stafford, D.A. Hughes, A.J. O’Malley, J.H. Fowler, and N.A. Christakis, “Social Network Targeting to Maximise Population Behaviour Change: A Cluster Randomised Controlled Trial,” *The Lancet* 386: 145-153 (July 2015) doi: [http://dx.doi.org/10.1016/S0140-6736\(15\)60095-2](http://dx.doi.org/10.1016/S0140-6736(15)60095-2)
- 163 A. Nishi, H. Shirado, D. Rand, and N.A. Christakis, “Inequality and Visibility of Wealth in Experimental Social Networks,” *Nature* 526: 426-429 (October 2015) doi: 10.1038/nature15392
- 164 A. Nishi, H. Shirado, and N.A. Christakis, “Intermediate Levels of Social Fluidity Amplify Economic Growth and Mitigate Economic Inequality in Experimental Social Networks,” *Sociological Science* 2: 544-557 (November 2015) doi: 10.15195/v2.a26
- 165 H.B. Shakya, N.A. Christakis, and J.H. Fowler, “Self Comparisons as Motivators for Healthy Behavior,” *Obesity* 23(12): 2477-2484 (December 2015) doi: 10.1002/oby.21201
- 166 A. Isakov, A Holcomb, L. Glowacki, and N.A. Christakis, “Modeling the Role of Networks and Individual Differences in Inter-Group Violence,” *PLoS One* 11(2): e0148314 (February 2016) <http://dx.doi.org/10.1371/journal.pone.0148314>
- 167 J.P. Onnela, B.E. Landon, A.L. Kahn, D. Ahmed, H. Verma, A.J. O’Malley, S. Bahl, R.W. Sutter, and N.A. Christakis, “Polio Vaccine Hesitancy in the Networks and Neighborhoods of Malegaon, India,” *Social Science and Medicine* 153: 99-106 (March 2016) doi:10.1016/j.socscimed.2016.01.024
- 168 H.B. Shakya, D.A. Hughes, D.K. Stafford, N.A. Christakis, J.H. Fowler, and J.G. Silverman, “Intimate Partner Violence Norms Cluster Within Households: An Observational Social Network Study in Rural Honduras,” *BMC Public Health* 16: 233 (March 2016) doi: 10.1186/s12889-016-2893-4
- 169 M.A. Andersson and N.A. Christakis, “Desire for Weight Loss, Weight-Related Social Contact, and Body Mass Outcomes,” *Obesity* 24(7): 1434-1437 (July 2016) doi: 10.1002/oby.21512
- 170 A. Nishi, N.A. Christakis, T. Evans, A.J. O’Malley, and D. G. Rand, “Social Environment Shapes the Speed of Cooperation,” *Scientific Reports* 6: 29622 (July 2016) doi: 10.1038/srep29622

- 171 D.A. Kim, E. Benjamin, J.H. Fowler, and N.A. Christakis, “Social Connectedness Is Associated with Fibrinogen Level in a Human Social Network,” *Proceedings of the Royal Society B* 283: 20160958 (August 2016)
- 172 L. Glowacki, A. Isakov, R.W. Wrangham, R. McDermott, J.H. Fowler, and N.A. Christakis, “Formation of Raiding Parties for Inter-Group Violence Is Mediated by Social Network Structure,” *PNAS: Proceedings of the National Academy of Sciences* 113(43): 12114-12119 (October 2016) doi: 10.1073/pnas.1610961113
- 173 W.R. Hobbs, M.K. Burke, N.A. Christakis, and J.H. Fowler, “Online Social Integration is Associated with Reduced Mortality Risk,” *PNAS: Proceedings of the National Academy of Sciences* 113(46): 12980-12984 (November 2016) doi: 10.1073/pnas.1605554113
- 174 H.B. Shakya, N.A. Christakis, and J.H. Fowler, “An Exploratory Comparison of Name Generator Content: Data from Rural India,” *Social Networks* 48: 157-168 (January 2017)
- 175 J.M. Perkins, V.N. Nyakato, B. Kakuhikire, P.K. Mbabazi, H.W. Perkins, A.C. Tsai, S.V. Subramanian, N.A. Christakis, and D.R. Bangsberg, “Actual Versus Perceived HIV Testing Norms, and Personal HIV Testing Uptake: A Cross-Sectional, Population-Based Study in Rural Uganda,” *AIDS and Behavior* in press (February 2017) doi: 10.1007/s10461-017-1691-z
- 176 H.B. Shakya and N.A. Christakis, “Association of Facebook Use with Compromised Well-Being: A Longitudinal Study,” *American Journal of Epidemiology* 185(3): 203-211 (February 2017) doi: 10.1093/aje/kww189
- 177 A. Nishi, N.A. Christakis, and D. G. Rand, “Cooperation, Decision Time, and Culture: Online Experiments with American and Indian Participants,” *PLoS ONE* 12(2): e0171252 (February 2017) doi.org/10.1371/journal.pone.0171252
- 178 H.B. Shakya, D. Stafford, D.A. Hughes, T. Keegan, R. Negron, J. Broome, M. McKnight, E. Nicoll, J.A. Nelson, E. Iriarte, J.H. Fowler, and N.A. Christakis, “Exploiting Social Influence to Magnify Population-Level Behavior Change in Maternal and Child Health: A Randomized Controlled Trial of Network Targeting Algorithms in Rural Honduras,” *BMJ Open* 7(3): e012996 (March 2017) doi: 10.1136/bmjopen-2016-012996
- 179 F. Fu, N.A. Christakis, and J.H. Fowler, “Dueling Biological and Social Contagions,” *Scientific Reports* 7: 43634 (March 2017) doi: 10.1038/srep43634.
- 180 C.E. Pollack, P.R. Soulos, J. Herrin, X. Xu, N.A. Christakis, H.P. Forman, J.B. Yu, B.K. Killelea, S.Y. Wang, C.P. Gross, “The Impact of Social Contagion on Physician Adoption of Advanced Imaging Tests in Breast Cancer,” *Journal of National Cancer Institute* 109(8): in press (August 2017) doi: 10.1093/jnci/djw330
- 181 J. Fernandez-Gracia, J.P. Onnela, M. Barnett, V.M. Eguiluz, and N.A. Christakis, “Influence of Patient Transfer Network of US Inpatient Facilities on the Incidence of Nosocomial Infections,” *Scientific Reports* 2017: in press
- 182 H. Shirado and N.A. Christakis, “Locally Noisy Autonomous Agents Improve Global Human Coordination in Network Experiments,” *Nature* 2017: 545: 370-375



## Book Chapters:

- 1 N.C. Ware, N.A. Christakis, and A. Kleinman, "An Anthropological Approach to Social Science Research on the Health Transition," in L.C. Chen, A. Kleinman, and N. Ware, eds., *Advancing Health in Developing Countries: The Role of Social Research*, New York, NY: Auburn House Publishing Co., 1992, pp. 23-38.
- 2 N.A. Christakis, N.C. Ware, and A. Kleinman, "Illness Behavior and the Health Transition in the Developing World," in L.C. Chen, A. Kleinman, and N. Ware, eds., *Health and Social Change in International Perspective*, Cambridge, MA: Harvard University Press, 1994, pp. 275-302.
- 3 N.A. Christakis and R.J. Levine, "Multinational Research," in W.T. Reich, ed., *Encyclopedia of Bioethics*, revised edition, New York, NY: Macmillan Publishing Co., 1995, pp. 1780-1787.
- 4 N.A. Christakis, "The Distinction Between Ethical Pluralism and Ethical Relativism: Implications for the Conduct of Transcultural Clinical Research," in H.Y. Vanderpool, ed., *Research Ethics on Human Subjects: Facing the 21st Century*, Frederick, MD: University Publishing Group, 1996, pp. 261-280.
- 5 N.A. Christakis, "Managing Death: The Growing Acceptance of Euthanasia in Contemporary American Society," in R.P. Hamel and E.R. DuBose, eds., *Must We Suffer Our Way to Death? Cultural and Theological Perspectives on Death by Choice*, Dallas, TX: Southern Methodist University Press, 1996, pp. 15-44.
- 6 E.B. Lamont and N.A. Christakis, "Epidemiology and Prognostication in Advanced Disease," in A. Berger, R.K. Portenoy, and D.E. Weissman, eds., *Principles and Practice of Palliative Care and Supportive Oncology*, 2<sup>nd</sup> ed., Philadelphia: Lippincott Williams & Wilkins, 2002, pp. 607-614.
- 7 N.A. Christakis, "On the Sociological Anxiety of Physicians," in C.M. Messikomer, J.P. Swazey, and A. Glicksman, eds., *Essays in Honor of Renee C. Fox: Society and Medicine*, New Brunswick, NJ: Transaction Publishers, 2003, pp. 135-144.
- 8 P. Glare and N.A. Christakis, "Predicting the Survival in Patients with Advanced Disease," in D. Doyle, G. Hanks, N. Cherny, and K. Calman, eds., *Oxford Textbook of Palliative Medicine*, 3<sup>rd</sup> ed., Oxford: Oxford University Press, 2004, pp. 29-42.
- 9 N.A. Christakis, "Pronostic," in D. Lecourt, ed., *Dictionnaire de la Pensée Médicale*, Paris: Presses Universitaires de France, 2004, pp. 910-916.
- 10 N.A. Christakis, "The Social Origins of Dignity in Medical Care at the End of Life," in J. Malpas and N. Lickiss, eds., *Perspectives on Human Dignity: A Conversation*, London: Springer, 2008, 199-207.
- 11 N.A. Christakis and P.D. Allison, "Inter-Spousal Mortality Effects: Caregiver Burden Across the Spectrum of Disabling Disease," in D.M. Cutler and D.A. Wise, eds., *Health at Older Ages: The Causes and Consequences of Declining Disability Among the Elderly*, Chicago: University of Chicago Press, 2009, 455-477.

- 12 N.A. Christakis, “Evolution in Real Time,” in J. Brockman, ed., *What Have You Changed Your Mind About?*, New York: Harper, 2009, 225-228.
- 13 N.A. Christakis, “The Anthroposphere,” in J. Brockman, ed., *This Will Change Everything*, New York: Harper, 2010, 233-236.
- 14 N.A. Christakis, “There Is No New Self,” in J. Brockman, ed., *Is the Internet Changing the Way You Think?*, New York: Harper, 2011, 202-204.
- 15 N.A. Christakis, “Social Networks Are Like the Eye,” in J. Brockman, ed., *Culture: Leading Scientists Explore Societies, Art, Power, and Technology*, New York: Harper, 2011, 171-190.
- 16 N.A. Christakis, “Holism,” in J. Brockman, ed., *This Will Make You Smarter*, New York: Harper, 2012, 81-83.
- 17 N.A. Christakis, “Out of the Mouths of Babes, or, Why Is the Sky Blue?,” in J. Brockman, ed., *This Explains Everything*, New York: Harper, 2013, 305-307.
- 18 N.A. Christakis, “The Unavoidable Intrusion of Socio-Political Forces into Science,” in J. Brockman, ed., *What Should We Be Worried About?* New York: Harper, 2014, 421-423.
- 19 N.A. Christakis, “Human Culture as the First Artificial Intelligence,” in J. Brockman, ed., *What to Think About Machines that Think* New York: Harper, 2015, 347-349.
- 20 N.A. Christakis, G.W. Imbens, J.H. Fowler, and K. Kalyanaraman, “An Empirical Model for Strategic Network Formation,” in B. Graham and A. dePaulo, eds., *The Econometrics of Networks*, 2018, forthcoming

#### Books:

- 1 N.A. Christakis, *Death Foretold: Prophecy and Prognosis in Medical Care*, Chicago, IL: University of Chicago Press, 1999. (Translated into Japanese, 2006.)
- 2 P. Glare and N.A. Christakis, eds., *Prognosis in Advanced Cancer*, Oxford, UK: Oxford University Press, 2008.
- 3 G. Hanks, N. Cherny, S. Kaasa, R. Portenoy, N.A. Christakis, and M. Fallon, eds., *Oxford Textbook of Palliative Medicine*, 4<sup>th</sup> ed., Oxford, UK: Oxford University Press, 2009.
- 4 N.A. Christakis and J.H. Fowler, *Connected: The Surprising Power of Our Social Networks and How They Shape Our Lives*, New York: Little Brown, 2009. (Translated into Spanish, German, Portuguese, Greek, Swedish, Chinese, Japanese, Korean, and over ten other languages.)
- 5 N.A. Christakis, *Blueprint: On the Biological Foundations of a Good Society*, New York: Little Brown, 2018 (forthcoming). (Translations slated for German, Greek, Chinese, and other languages.)

## Monograph:

- 1 N.A. Christakis, *Implicit Purposes of Proposals to Reform American Medical Education*, Philadelphia, PA: Medical College of Pennsylvania Press, 1995.

## Thesis:

- 1 N.A. Christakis, *Prognostication and Death in Medical Thought and Practice*, Ann Arbor, MI: University Microfilms, 1995. [Ph.D. dissertation]

## Letters, Book Reviews, Editorials, Comments, Essays, Columns, Notes, Interviews:

- 1 N.A. Christakis, "Textbook of Medical Ethics," [review] *Journal of General Internal Medicine* 5(6): 538-539 (1990)
- 2 N.A. Christakis, "Anthropology Should Inform Clinical Research Ethics," [letter] *Social Science and Medicine* 34(5): 589-590 (1992)
- 3 N.A. Christakis and R.C. Fox, "Informed Consent in Africa," [letter] *New England Journal of Medicine* 327(15): 1101-1102 (1992)
- 4 N.A. Christakis, J.A. Jacobs, and C.M. Messikomer, "Change from Specialist to Generalist," [letter] *Annals of Internal Medicine* 122(8): 636 (1995)
- 5 N.A. Christakis and J.J. Escarce, "Medicare Hospice Programs," [letter] *New England Journal of Medicine* 335(25): 1926-1927 (1996)
- 6 N.A. Christakis, "Inventing Pain Medicine: From the Laboratory to the Clinic," [review] *American Journal of Sociology* 105(4): 1246-1248 (2000)
- 7 T.J. Iwashyna and N.A. Christakis, "Physicians, Patients, and Prognosis," [editorial] *Western Journal of Medicine* 174(4):253-254 (2001)
- 8 T.J. Iwashyna and N.A. Christakis, "Signs of Death," [editorial] *Journal of Palliative Medicine* 4(4):451-452 (2001)
- 9 E.B. Lamont and N.A. Christakis, "Prognostic Disclosure," [letter] *Annals of Internal Medicine* 137(5): 368-367 (2002)
- 10 N.A. Christakis, "The Word as Scalpel: A History of Medical Sociology," [review] *American Journal of Sociology* 111(1): 318-319 (2005)
- 11 L.J. Kristjanson and N.A. Christakis, "Investigating Euthanasia: Methodological, Ethical, and Clinical Considerations," [editorial] *Palliative Medicine* 19(8): 575-577 (2005)
- 12 N.A. Christakis and P.D. Allison, "Mortality After the Hospitalization of a Spouse," [letter] *New England Journal of Medicine* 354 (20): 2190-2191 (2006)

- 13 N.A. Christakis, “Advances in Palliative Care Research Methodology,” [editorial] *Palliative Medicine* 20(8): 725-726 (2006)
- 14 N.A. Christakis and J.H. Fowler, “The Spread of Obesity in a Social Network,” [letter] *New England Journal of Medicine* 357 (18): 1867-1868 (2007)
- 15 N.A. Christakis, “Social Networks Are Like the Eye,” [interview] available at [www.edge.org](http://www.edge.org), at [http://www.edge.org/3rd\\_culture/christakis08/christakis08\\_index.html](http://www.edge.org/3rd_culture/christakis08/christakis08_index.html) (2007)
- 16 N.A. Christakis, “What Networks Can Teach Us About Drug Use,” [column] *British Medical Journal* 336: 420 (2008)
- 17 N.A. Christakis, “Don’t Just Blame the System,” [column] *British Medical Journal* 336: 747 (2008)
- 18 N.A. Christakis, “Medicine Can Change Our Genes,” [column] *British Medical Journal* 336: 1101 (2008)
- 19 N.A. Christakis, “Health Care in a Web,” [column] *British Medical Journal* 336: 1468 (2008)
- 20 N.A. Christakis, “Too Quietly Into the Night,” [column] *British Medical Journal* 337: 326 (2008)
- 21 N.A. Christakis, “Valuing the Well Connected,” [column] *British Medical Journal* 337: 725 (2008)
- 22 N.A. Christakis, “Does This Work for You?,” [column] *British Medical Journal* 337: 1025 (2008)
- 23 N.A. Christakis, “This Allergies Hysteria Is Just Nuts,” [column] *British Medical Journal* 337: 1384 (2008)
- 24 N.A. Christakis, “The Dynamics of Personal Influence,” [note] *Harvard Business Review*, 87(2): 31 (2009)
- 25 D. Lazer, A. Pentland, L. Adamic, S. Aral, A.L. Barabasi, D. Brewer, N.A. Christakis, N. Contractor, J. Fowler, M. Gutmann, T. Jebara, G. King, M. Macy, D. Roy, and M. Van Alstyne, “Computational Social Science,” [essay] *Science* 323: 721-723 (2009)
- 26 N.A. Christakis, “The Anthroposphere is Changing,” [column] *British Medical Journal* 338: 918 (2009)
- 27 N.A. Christakis, “You Make Me Sick!” [column] *British Medical Journal* 339: 76 (2009)
- 28 N.A. Christakis, “Indirectly Doing Harm,” [column] *British Medical Journal* 339: 782 (2009)
- 29 M. Collins, S. Block, R. Arnold, and N.A. Christakis, “Responsibility and Reflection: Understanding Our Responses to Perceived Errors – A Response to Woodward, Lemer, and Wu,” *Social Science and Medicine* 69(9): 1294-1295 (November 2009)
- 30 J. Crabtree and N.A. Christakis, “Let’s All Be Friends,” [Essay] *Prospect*, February 24, 2010

- 31 N.A. Christakis and J.H. Fowler, “Contagion in Prescribing Behavior Among Networks of Doctors,” [comment] *Marketing Science* 30(2): 213-216 (April 2011); doi:10.1287/mksc.1100.0595
- 32 N.A. Christakis, “Jumping to Conclusions,” [review] *New York Times Book Review* June 26, 2011, page BR10
- 33 L. G. Miller and N.A. Christakis, “Tapping the Power of Social Networks,” [note] *Harvard Business Review* (September 2011) <http://hbr.org/2011/09/tapping-the-power-of-social-networks/ar/1>
- 34 S. Arbesman and N.A. Christakis, “Eurekometrics: Analyzing the Nature of Discovery,” [essay] *PLoS Computational Biology* 7(6): e1002072. doi:10.1371/journal.pcbi.1002072 (June 2011)
- 35 N.A. Christakis, “Putting the Social into Science: Forget about Nature vs. Nurture, the Answer Lies in Between,” [essay] *Time*, December 19, 2011, page 28.
- 36 J.H. Fowler and N.A. Christakis, “A Random World Is a Fair World,” [comment] *PNAS: Proceedings of the National Academy of Sciences* 110(7): 2440-2441 (February 2013) doi: 10.1073/pnas.1222674110
- 37 N.A. Christakis and J.H. Fowler, “Rejoinder to Commentaries on ‘Social Contagion Theory,’” [comment] *Statistics in Medicine*, 32(4): 597-599 (February 2013)
- 38 A. Nishi and N.A. Christakis, “Human Behavior Under Inequality Shape Inequality,” *PNAS: Proceedings of the National Academy of Sciences*, 112(52): 15781-15782 (December 2015)
- 39 N.A. Christakis, “The Lure of Luxury” [essay] *Boston Review* 40(6): 22 (November, 2015)
- 40 H.B. Shakya and N.A. Christakis, “A New, More Rigorous Study Confirms: The More You Use Facebook, the Worse You Feel,” [essay] *Harvard Business Review*, April 10 (2017)

#### Patents:

- 1 H. Pinsky, S.S. Sheldon, N.A. Christakis, and M. Schmertzler, “Radiological Image Interpretation Apparatus and Method,” # 5,469,353; # 5,513,101 (1995)
- 2 D. Centola and N.A. Christakis, “Establishing a Social Network,” # US8713143 B2 (2007)
- 3 N. Chawla, A.L. Barabasi, and N.A. Christakis, “Disease Prediction Using Collaborative Filtering,” #8,504,343 (2008)
- 4 N.A. Christakis and J.H. Fowler, “Social Network Method for Anticipating Epidemics and Trends,” submitted (2010)
- 5 N.A. Christakis, M.L. Barnett, and B. E. Landon, “Method for Using Physician Social Networks Based on Common Patients to Predict Cost and Intensity of Care in Hospitals,” submitted (2011)

## Working Papers:

- 1 G. Iosifidis, Y. Charette, E. Airoidi, G. Littera, L. Tassiulas, and N.A. Christakis, “Network Loops and Economic Efficiency in a Novel Monetary System,” under review
- 2 J. Wu, F.W. Crawford, D.A. Kim, D. Stafford, and N.A. Christakis, “Exposure, Hazard, and Survival Analysis of Diffusion on Social Networks,” under review
- 3 A. Nishi, J.H. Fowler, and N.A. Christakis, “Genetic Assortative Mating and Natural Selection in Humans,” working paper
- 4 B.E. Landon, N.L. Keating, J.P. Onnela, A.J. O’Malley, A. Zaslavsky, and N.A. Christakis, “Patient-Sharing Networks of Physicians and Healthcare Utilization and Spending Among Medicare Beneficiaries,” under review
- 5 J.S. Williams, N.A. Christakis, and J.P. Onnela, “Detecting Epidemic Influenza with SMS Using Citizen Sensors on a Metropolitan Scale,” under review
- 6 H. Shirado, G. Iosifidis, L. Tassiulas, and N.A. Christakis, “Sharing and Reciprocity in Technologically Defined Social Networks,” working paper.
- 7 M.A. Andersson and N.A. Christakis, “Social Network Changes and Weight Loss Motivation,” working paper
- 8 J. Fernandez-Gracia, M. Barnett, V.M. Eguiluz, N.A. Christakis, and J.P. Onnela, “Spread of Pathogens in the Patient Transfer Network of US Hospitals,” under review