

CURRICULUM VITAE

PART I: General Information**Date Prepared:** February 2, 2018**Name:** Nicholas Alexander Christakis**Main Office Address:** Yale Institute for Network Science
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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, CT1984-89 M.D., *cum laude*
Harvard Medical School, Boston, MA1987-88 M.P.H.
Harvard School of Public Health, Boston, MA1991-95 Ph.D., Sociology
University of Pennsylvania, Philadelphia, PA**Postgraduate Training:**1989-91 Resident in Medicine
University of Pennsylvania Medical Center, Philadelphia, PA1991-93 Robert Wood Johnson Foundation Clinical Scholar
University of Pennsylvania, Philadelphia, PA1993-95 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, <i>Law, Medicine & Ethics</i>
1993-00	Member, Editorial Board, <i>IRB: A Review of Human Subjects Research</i>
1998-06	Member, Editorial Board, <i>Journal of Palliative Medicine</i>
1999-06	Member, Editorial Board, <i>British Medical Journal (BMJ)</i>
2000-01	Associate Editor, <i>American Journal of Sociology (AJS)</i>
2002-11	Associate Editor, <i>Palliative Medicine [UK]</i>

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,” 37th 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, Hanover, 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 “21st 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
- 2017 “Social Network Interventions with Artificial Intelligence,” Apple University, Cupertino, CA
- 2017 “Social Network Experiments,” Bill and Melinda Gates Foundation, Seattle, WA
- 2017 “Social Network Experiments,” MIT, Cambridge, MA
- 2017 “Social Network Interventions,” Department of Psychiatry, Johns Hopkins University, Baltimore, MD
- 2017 “Social Networks for Good,” Notestein Lecture, Princeton University, Princeton, NJ
- 2017 “Social Network Interventions,” Department of Economics, Princeton University, Princeton, NJ

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- 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

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2008-15 Jessica Perkins, Graduate Student, Harvard University

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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)
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- 5 N.A. Christakis, “Should IRB’s Monitor Research More Strictly?” *IRB: A Review of Human Subjects Research* 10(2): 8-10 (April 1988)
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