

**CV**  
**JONATHAN D. MAYER, PhD**  
**Professor of Geography**  
**Professor of Epidemiology**  
**University of Washington**  
**March 2016**

**OFFICE ADDRESS:**

Departments of Epidemiology and Geography,  
Box 353550

University of Washington  
Seattle, WA 98195

Warren Magnuson Health Sciences Center, University of Washington, Room F-365, Department of Epidemiology, and Smith Hall, Room 412-C, Department of Geography

Tel. (206) 543-7110 (Geography) and (206) 221-3953

FAX: (206) 543-3313

E-Mail: [jmayer\(at\)u.washington.edu](mailto:jmayer@u.washington.edu)

Webpage: <http://faculty.washington.edu/jmayer>

Health Improvement and Promotion Alliance (HIP-Ghana)—  
[www.hip-ghana.org](http://www.hip-ghana.org)

**EMPLOYMENT:**

Professor of Epidemiology, Geography; Chair, Faculty Council, School of Public Health; Adjunct Professor of Medicine, Division of Allergy and Infectious Diseases; Adjunct Professor of Global Health; Adjunct Professor of Family Medicine; Adjunct Professor of Health Services, University of Washington; Clinical consultant, Travel and Tropical Medicine Service, and Infectious Disease Clinic, University of Washington Medical Center; Associate, WWAMI Rural Health Research Center; Associate, Center for Studies in Demography and Ecology; Affiliate, Center for AIDS and STD Research (CFAR). Program Director, MPH in Epidemiology/PhD in Anthropology Dual Program. Associate Faculty, Harborview Injury Prevention and Research Center, Harborview Medical Center, of University of Washington Medicine. Member, Institute for Translational Health Sciences, University of Washington. President, Founder, and CEO, Health Improvement and Promotion Alliance (HIP)—NGO operating in Accra, Ghana.

**PAST EMPLOYMENT:**

Visiting Professor of Public Health, Harvard School of Public Health, 1997-1998

Assistant Professor of Geography, University of Washington, 1977-1981;  
Associate Professor, 1981-1985.

Visiting Professor, University of Trondheim, Norway, 1987, 1994, and 1999 (renamed Norwegian Technical and Natural Sciences University).

Transportation Planner, Great Lakes Basin Commission, Ann Arbor, MI, 1976.

Transportation Research Associate, Highway Safety Research Institute, The University of Michigan, Ann Arbor, 1976.

Director of Data Analysis and Consultant, Institute for Community Design Analysis, New York City, 1974-1975.

Computer Systems Analyst, New York City Health and Hospitals Corporation. Office of Information Services, New York City, 1973.

Consultant, United Transportation Union, Cleveland, OH, 1971-1972.

#### **GENERAL RESEARCH INTERESTS:**

Epidemiology, ecology, and spatial analysis of infectious diseases, especially pertaining to developing countries; urban slum health in developing countries; epidemiology of pain and pain in developing countries; tuberculosis and HIV/AIDS in sub-Saharan Africa; Host-environment interaction in infectious disease pathogenesis; water, sanitation, and infectious disease; and global environmental change and health.

#### **EDUCATION:**

Ph.D. (1977) and M.A. (1975) in Geography, The University of Michigan. Training in clinical medicine and public health.

B.A. in History (Distinction) and Urban Studies (High Distinction), University of Rochester, 1973

#### **ADDITIONAL TRAINING:**

W.K. Kellogg National Fellow in bioethics and health policy, 1984-1987  
University of Washington Bioethics Institute, Summer 1991.

"Leadership Tomorrow." Leadership and community service training program, United Way and Chamber of Commerce, 1991-1992.

New England Epidemiology Institute/Tufts University. Summer, 1998. Courses in advanced epidemiologic methods, pharmacoepidemiology, health outcomes, cost-effectiveness methods in health services, logistic regression, and clinical trials.

Clinical Symposium, Travel and Tropical Medicine, American Society of Tropical Medicine and Hygiene, Philadelphia, December 2003.

“Research in HIV and other Sexually Transmitted Infections.” University of Washington School of Medicine, July, 2005 and July 2006.

Fellow, American Heart Association, Cardiovascular Epidemiology and Prevention, 2010.

**COURSES TAUGHT (some intermittently):**

The Geography of Health and Health Care (GEOG 280—295 students); Geographical Patterns of Health (GEOG 380—130 students); Environmental Geography, Climate, and Health (GEOG 480—45 students); Medical Geography (cross-listed in Department of Health Services—GEOG 580/HSERV 586); Seminar in Medical Geography (GEOG 581—crosslisted in Health Services; topics vary. In Fall, 2008, topic is “Slum Health in Developing Countries”); Evolution of and Virulence of Infectious Disease (cross-listed in Biological Anthropology).

HONORS 222 C (Science). PAIN. New course developed and taught with John D. Loeser, MD, Prof, Neurosurgery. We approach pain from a social science, biological, literary, philosophic, and psychological perspectives. Spring, 2014.

**Past courses taught:**

Introduction to Geography (500 students); Transportation Geography; Contemporary Philosophies and Methodologies in Geography; Undergraduate Seminar in Public Health; Economic Geography; Transportation Geography; Intraurban Spatial Patterns.

**GRADUATE STUDENTS SUPERVISED** (Chaired the committee—approx 48)

*e. carol hollenbeck*, "open space at the urban periphery," m.a., 1979.

*howard j. thiersch*, "networks and schedules: a look at airline strategies," m.a., 1980. currently in law practice, seattle, wa.

*sheila j. moss*, "stress, change, and a sense of place: some thoughts on providing care for cancer patients," m.a., 1980.

*lori e. cohn*, "residential patterns of the jewish community of the seattle area, 1910-1980," m.a., 1980. self-employed as independent real estate appraiser and development marketer.

*elizabeth r. kohlenberg*, "geography and the demand for mental health services," m.a., 1982. "friends in places," ph.d. 1989. currently director of research with washington state department of social and health services.

*richard snyder*, "regional economic structure and air passenger generation," m.a., 1981.

*jay lund*, "urban liveaboards and the community," m.a., 1983. currently associate professor of civil engineering, university of california - davis.

*elizabeth s. selke*, "the geography and seasonality of suicide in washington state," m.a., 1984. currently employed as research scientist, department of laboratory medicine, university of washington school of medicine, seattle, wa

*nancy a. fisher*, ph.d. in medical geography completed august, 1986. currently researcher, battelle insitute, seattle, wa.

*iain hay*, ph.d. in medical geography, 1989. currently professor and chair, school of geography, flinders university, australia.

*amanda whelan*, m.a. in medical geography, 1989. ph.d. in medical geography, university of cardiff, wales, 1994.

*katherine harris*, m.a. in medical geography, december 1992. "spatial patterns of helping neighbor networks for the elderly: a case study." currently employed in planning services for elderly good samaritan hospital, puyallup, wa..

*kevin mccollister*, m.a. in medical geography, 1992.

*michael mohrman*, m.a. in medical geography. 1992.

*kate friesen*, r.n., msn, m.a. in medical geography, 1992. "a geography of health model and rural health care access issues."

*michael pirani*, ph.d. in medical geography, 1994. "understanding the effects of small rural hospital closure on rural communities." currently assistant professor, department of environmental, earth, and spatial sciences, north carolina central university.

*renee garber*, m.a, 1995. currently in law practice.

*frank norris*, ph. d., 1995. "spatial diffusion of intermodal rail technologies." currently historian, alaska national parks.

*eric larson*, ph.d, 1995. "geographic variation in the risk of poor birth outcome in the non-metropolitan population of the united states, 1985- 1987. currently director and principal investigator, rural health research center, and research associate professor, university of washington school of medicine

*meredith fordyce*, ph.d. in medical geography, 2005, ma, 1992. research associate, department of family medicine, university of washington. doctoral opportunities program, department of health services, school of public health, nih fellow. currently research scientist, wwami rural health research center.

*chris roberts*, rpt, m.a. in medical geography, ph.d. in medical geography. geography 1995. currently research assistant professor, missouri psychiatric institute, university of missouri school of medicine.

*jonathan smith*, m.a. in medical geography, 1994.

*mary-katherine goodwin*, m.a. in medical geography, 1996. currently ob/gyn faculty, asheville, nc.

*charles o'donnell*, m.a. in medical geography, 1998.

*caroline archibald lange*, m.a. in historical geography, 1997.

*joe miller*, ma in medical geography, 2002. currently health care consultant.

*mary c. tillotson-criss*. mph, department of epidemiology (infectious diseases) 2002.

*david r. abernathy*, ph.d. in medical geography, 2000. currently associate professor, warren wilson college, north carolina.

*david paschane*, ph.d. in medical geography, 2003. currently director of performance management, us veterans administration (va) and advisor, center of information technology and health outcomes research advisory board.

*karin johnson*, ph. d. in medical geography, 2003. currently research scientist center for health studies, group health cooperative.

*joseph egger*. ma in medical geography, 2004. phd from london school of tropical medicine and hygiene.

*sunil aggarwal*. md-phd student in medicine, uw medical school and medical geography, department of geography. phd, 2008. currently a senior resident, (pgy-4), department of physical medicine and rehabilitation, new york university school of medicine, langone medical center. has accepted post-residency fellowship in palliative and pain care, clinical center, nih, as of july 1, 2014.

*emily brunson*, mph in epidemiology (infectious diseases; vaccines), 2005. currently phd student in biological anthropology, university of washington.

*sarah paige*, mph. phd in medical geography, 2010. currently research scientist, pathobiology and epidemiology, university of wisconsin school of veterinary medicine—cross species transfer of pathogens.

*amber pearson*, mph. phd in medical geography, february 2010. currently assistant professor of geography, and water resources institute, michigan state university.

*todd faubion*, ma in medical geography, 2007.

*michelle bilodeau*, ma in medical geography, 2008. currently with the san mateo county health department, california.

*maureen halstead*, mph (infectious diseases—non-tb mycobacterial disease), extended degree mph, 2008. oregon department of health, *epidemiologist*.

*katherine s. wander*. mph in epidemiology (infectious diseases; biomarkers), 2008. currently phd student in biocultural anthropology, university of washington.

*lillian benjamin*, joint degree, ma international studies, mph global health), 2008. currently working for usaid.

*eyal oren*, phd in epidemiology (infectious diseases—tb) 2010. currently assistant professor of epidemiology and biostatistics, university of arizona

*malaika little, md*. mph in epidemiology (infectious diseases), 2011. clinical fellow, university of washington school of medicine, department of pediatrics.

*dan colombara*, departments of epidemiology and global health, mph, 2010 (infectious diseases of importance in developing countries). currently in phd program, epidemiology, university of washington, and entering institute for health metrics and evaluation, postdoctoral fellow, fall, 2014.

*jeff stanaway*, PhD, 2013. department of epidemiology, university of washington. currently assistant professor, department of global health and institute for health metrics and evaluation, university of washington, september 1, 2013.

*skye naslund*, ma in medical geography (infectious diseases), june 2012. currently in phd program in geography, university of washington.

*alex wagner*, phd in geography (medical and gis), in progress (?). co-chair with tim nyerges

*Kevin Psoter*, PhD in epidemiology, 2013. now postdoctoral fellow, department of epidemiology, Johns Hopkins University Bloomberg School of Public Health

*Gillian Tarr*, PhD in epidemiology in progress (infectious diseases-E. coli 0157:h7).

*Mary Fan, JD*. Professor of Law, UW, and PhD student, Epidemiology (epidemiology of crime and violence)

## **COMMITTEES AND PROFESSIONAL SERVICE (selected):**

### **Professional Service:**

Senior Editor, *Encyclopedia of Public Health*, 2<sup>nd</sup>. Ed, Elsevier, 2015.

Chair, NIH Panel, Epidemiology and Population Sciences. Summer, 2013. NIH ZRG1 PSE-S (02) M.

Co-chair, NIH Special Study Section, Cardiovascular Epidemiology and Infectious Disease, ZRG1 PSE-S 02 M, 2013.

Co-chair, NIH Special Study Section, Environmental Health, 2013.

Scientific Review Board, *Patient Centered Outcomes Research Institute (PICORI)*, by charter of Congress to assess population-based comparative effectiveness research for clinical treatment. 2012- present.

Editorial Board, *American Journal of Medicine*

Editorial Board, *Epidemiology: Current Research*.

NIH-AAG Committee on a Cross-NIH Infrastructure for GIS and Spatial Analysis, 2010-present.

Member and Vice-Chair, Special Emphasis Panel, Climate Change and Health, NIH, March, 2011

Member of Council and Web Editor, American Society of Tropical Medicine and Hygiene, 2009-2012.

Editor (with others), *Interdisciplinary Perspectives on Infectious Diseases*. 2007-2011.

External PhD examiner, University of Canterbury, NZ, Division of Health Sciences

Outside departmental reviewer, University of Southern California, Department of Geography, April, 2009.

Member, AAG-NIH Committee on GIS-Spatial Analysis Infrastructure, 2011-present.

Editorial Board, *The Professional Geographer*, 2005-2008.

Editorial Board, *Geographical Research Forum*, 2000-present.

Member, National Academy of Sciences Committee on Research Priorities on the Earth Sciences and Public Health, 2004-2007.

Member, National Academy of Sciences Standing Committee on The Geographical Sciences, 2004-2008.

Member, National Academy of Sciences Committee on Identifying Vulnerable Populations in Times of Humanitarian Need, 2005-2007.

Member, National Institutes of Health Review Panel on Epidemiology and Disease Control (EDC-3), 2001-present. Panel renamed Epidemiology of Clinical Disorders and Aging (ECDA), 2003-2005. Appointed to panel on Epidemiology of Infectious Diseases, Reproductive Disorders, Asthma, and Pulmonary Disorders (IRAP), 2005-2010.

Member, “Mobilizing Academic Resources to Improve Surveillance for Emerging Infectious Diseases in Asia and the Pacific”—task force funded by the Center for Disease Control and Prevention (CDC), 2005.

Steering Committee, National Center for Atmospheric Research, Program on Climate and Health, 2004.

Co-editor, *Encyclopedia of Public Health* (8 volumes), Elsevier Press. Responsible for editing chapters, recruiting authors, and structuring sections on emerging and resurgent infectious diseases, 2004-2008.

External Examiner (“Opponent”), Norwegian University of Science and Technology, Trondheim, Norway, 2001-2002; 2003, 2005.

Member, National Institutes of Health Review Panel on Social Sciences, Nursing, Epidemiology and Methods (SNEM), 2001-2002.

Grants Selection Committee, Kellogg Fellows Leadership Alliance, 2002-2004..

Advisor, Task Force on Community Preventive Services, Centers for Disease Control. Appointed May, 1999.

National Research Council/Institute of Medicine/National Academy of Sciences Committee on Climate, Ecosystems, Infectious Diseases, and Health (CEIDH), 1999-2001. Charge of the Committee was to evaluate the scientific evidence on the relations between climate and infectious disease. Culminated in publication of *Under the Weather: Climate, Ecosystems, and Infectious Disease*. Washington: National Academy Press, 2001.

Editorial Board, *Health and Place*, 1997-2005.

Editorial Board, *Geographical Research Forum*, 2000-present.

External Examiner, University of Victoria. Two PhD exams, 1999-2000

Board Member, Medical Geography Specialty Group, Association of American Geographers, 1995-1997.

Book Review Editor, *The Professional Geographer*, 1994 -1997.

External Examiner, Department of Geography, Simon Fraser University, 1992, 2000, 2001.

Editorial Board, *Journal of Rural Health*, 1991- 1992.

National Steering Committee, "Access to Care in Rural Areas," Grant from NIH to University of Nebraska, 1989-1991.

Editor, *Medical Geography Newsletter*, 1980-1986.

Chairman, Medical Geography Specialty Group, Association of American Geographers, 1980-1983. Board member, 1995-97.

Member, AAAS Panel on CO<sub>2</sub>-Induced Climate Change and Human and Animal Health.

### **University Service:**

Chair, Faculty Council, School of Public Health, 2014-2015.

Department of Geography, Chair, Diversity Committee, 2014-2015

Department of Geography, Graduate Committee, 2013-2014.

Department of Geography, Executive Committee, 2013-2014.

Department of Geography, Executive Committee, 2011-2012.



Member, Department of Geography Graduate Committee, 2010-present.

Elected member, Department of Epidemiology, School of Public Health Faculty Council, 2012-2015.

Member, Committee on Strategic Planning and Revisioning, School of Public Health, University of Washington, 2011-2012.

Faculty Committee on Reorganization, Consolidation, and Elimination of Programs (RCEP), member, University of Washington, 2009-10.

Review Committee, Department of Environmental and Occupational Health, School of Public Health, 2009-2010.

Program Director (Epidemiology), Joint MPH-PhD Program in Anthropology. 2007-present.

Honors Program Director, Department of Geography, 2004-2007.

Board of Governors, Program on the Environment, 2003-2005.

Co-Director, Undergraduate Major in Public Health, 2000-2009.

Steering Committee, Undergraduate Program in Public Health, 1996-2009.

Search Committee for Chair, Department of Geography, 2000.

Executive Committee, Department of Geography, various times, including 2005;  
Development Committee, Department of Geography, 1999-present;.

Curriculum Committee, Department of Geography, 1999-2001.

Graduate Admissions Committee, Department of Geography, 1991-1993; 1998-1999; 2001-2002; 2004-2005.

Director, Undergraduate Program in Public Health, 1995-1997.

Member, Student Records Committee, 1996-1997.

Honors Director, Department of Geography, 1993-96.

Co-founder, Emerging Diseases Working Group, University of Washington, 1995-1997.

President, University of Washington Chapter, American Association of University Professors, 1995-1996.

Chair, Faculty Council on Academic Standards, 1994 –1995.

Elected voting member of Faculty Senate Executive Committee, 1994-1995; 1995-1996.

Steering Committee, proposed undergraduate college, 1994.

Nominating Committee, Faculty Senate, 1994.

Board of Directors, University of Washington Chapter, American Association of University Professors (AAUP).

Executive Committee, Department of Geography, 1993-1994, 1998-1999, 2005.

Member, Graduate School Fund Review Panel, 1990-1994.

Program Development Committee, Department of Geography, Chair 1990-1991.

Faculty Hiring Committee, Department of Geography Chair, 1990-1991

Graduate Program Coordinator, Department of Geography, 1988 - 1989.

Chair, Special Committee on the Social Science Institute, 1987.

Special Committee on the Social Sciences, 1985-1986.

Chairman, Search Committee, Department of Geography, 1985-86, 1988.

Transportation faculty search committee, Department of Civil Engineering, 1982-1983.

Executive Committee, Department of Geography, 1979-1980; 1983-1984; 2011-2012/

Chairman, Ph.D. Review Committee, Department of Geography, 1983.

Admissions Committee, Department of Geography, 1978-1980; 1982-1989; 1991-1993; 2009-2012.

Curriculum Committee, Department of Geography, 1977-78, and 1980-81, Chairman, 1987-88.

Grievance Committee (alternate), Faculty Senate, 1980-82.

Transportation Research Group, 1980-

Urban and Regional Science Research Group, 1977-81.

Affiliate, Center for Health Services Research, School of Public Health and Community Medicine, 1978-82.

European Studies Group, 1977-78.

**Community Service:**

President, CEO, and founding member, Health Improvement and Promotion Alliance (HIP-Ghana)—an NGO operating in the largest slum in Accra, Ghana, to improve health conditions in concert with citizens. 2006-present.

Medico-legal consulting, Gregg Tinker, Esq., Tinker-Kidman, Seattle, WA, 2004-2005.

Expert witness and consultant, NAACP, Contra Costa County, California, 1994, on equity of access to health care.

Member, Ethics Committee, Northwest Hospital, Seattle and Chief, Clinical Ethics Consultation Service. 1986-1993.

Member, Board of Directors, King County Health Planning Council. 1980-1987.

Member, Facilities Review Committee, King County Health Planning Council, 1985-1989.

Expert witness, Griffin vs. Reno County Ambulance Co., Federal District Court, Wichita, KA, October 1982

Consultant, Washington State Health Facilities Association, 1982.

Seattle Medic-I Program (Paramedic Program, Seattle Fire Department). 1977-80.

King County Health Planning Council, member of Primary Care Committee 1980.

Puget Sound Health Systems Agency advisor 1979.

Southeast Effective Development (SEED), uncompensated consulting on community-based emergency medical services study, 1979-80.

Seattle Area Hospital Council, consulting on regional emergency care study, 1978.

Crisis Intervention and Emergency Therapy, volunteer, Emergency Room, Northwest Hospital, Seattle, 1981-1988.

**INVITED LECTURES (selected):**

"Geography and Medical Emergencies," Department of Geography, University of California - Berkeley, 1978.

"A Spatial Analysis of Urban Medical Emergencies and Cardiac Arrests." Department of Epidemiology, University of Washington, Winter 1979.

"Spatial Analysis and Epidemiologic Method." Department of Epidemiology, University of Washington, 1979.

"Medical Geography and Out-of-Hospital Cardiac Arrest." Department of Geography, University of Wisconsin--Milwaukee, 1979.

"Man, Space, and the Environment: The Study of Geography." University Unitarian Church Lecture Series, May 1980.

"The Distance Behavior of Hospital Patients: A Disaggregated Analysis." Department of Health Services, University of Washington, 1980.

"Regional Effects of the Mt. St. Helens Eruption." Grand Rounds, Department of Medicine, University of Washington, 1980.

"The Changing Geography of Jewish Population in the United States." Congregation Herzl Ner Tamid, Mercer Island, WA, 1981.

"Medical Geography: Its Relevance for Epidemiology." Department of Epidemiology, University of Washington, 1981.

"Medical Geography: An Emerging Field." Department of Family Medicine, University of Washington, 1983.

"Influenza in Seattle, 1918-1919." Department of Anthropology, University of Washington, 1983.

"Medical Geography of Rural Areas." Nurse Practitioner Program, Department of Community Health Care Systems, School of Nursing, University of Washington, 1983-84.

"Characteristics of Rural Hospital Closures." Department of Family Medicine, University of Washington, 1983.

Invited lectures, Ben Gurion University of the Negev (Medicine and Geography), University of Haifa, Hebrew University of Jerusalem, November/December, 1983.

"Spatial Patterns of Rural Hospital Closure." Department of Health Services, University of Washington, 1984.

"Medical Geography: An Emerging Discipline." Robert Wood Johnson Foundation Clinical Scholars Program, University of Washington, 1984.

"Geographical Patterns of Multiple Sclerosis." University of Hawaii, Department of Geography, 1985.

"The Centrality of Medical Geography to Human Geography." Department of Geography, University of Hawaii, 1985.

"Medical Geography." Robert Wood Johnson Foundation Clinical Scholars Program, University of Washington, 1985.

"Introduction to Medical Geography." Department of Family Medicine, Fellows' Seminar lecture, 1986.

"International Perspectives on Defining Basic Health Care Services." Annual meeting, King County Health Planning Council, 1986.

"The Generalist and Future Health Care." Department of Family Medicine, 1986.

"Medical Geography and Clinical Travel/Tropical Medicine." Travel and Tropical Medicine Clinic, University Hospital, 1986.

"Dengue Fever, Dengue Hemorrhagic Fever, and Dengue Shock Syndrome: Diagnosis, Clinical Management, and Epidemiology." Travel and Tropical Medicine Clinic, University Hospital, 1987.

"Cuban Health Problems." Travel and Tropical Medicine Clinic, University Hospital, 1987.

"Explorations into Cuban Health Care." Department of Geography, and International Health Program, University of Washington, 1987, and Department of Geography, University of Trondheim, 1987.

"Doing Interdisciplinary Research in Social Science and Medicine." Visiting Professor of Family Medicine, University of North Carolina -Chapel Hill, 1987.

"Basic Concepts of Bioethics and a Case Presentation." Ethics Committee, Northwest Hospital, 1987.

Visiting Professor, University of Trondheim, Norway, 1987, and 1993. Guest lectures: "The Relevance of Medical Geography to Social Medicine and Public Health," Department of Social Medicine: Numerous lectures in special research course in medical geography.

"Spatial Analysis and Disease Causation." Department of Geography, University of Bergen, Norway, 1987.

"A Framework for the International Comparison of Health Care Systems." Department of Community Medicine, University of Tromsø, Norway, 1987.

"The Ecology, Diagnosis, and Treatment of Trypanosomiasis." Travel and Tropical Medicine Clinic, University Hospital, October 1987.

"Principles/Factors Which Enter Into Ethical Clinical Decision Making." Presented at continuing medical education symposium, "Medical Ethics: Present Dilemmas and Future Challenges." Northwest Hospital, CME course, March, 1988.

"Viral Hemorrhagic Fevers." Travel and Tropical Medicine Clinic, University Hospital, April 1988.

"Ethical Principles Which Should Guide Daily Practice: Why They Do and Why They Don't." Northwest Hospital, CME course, "Ethics and Nursing Practice: How Not to Get Caught in the Middle," November, 1988.

"Disease As Natural Hazard," and "Medical Geography into Medical Ethics: The Moral Implications of Health Facility Location." The Pennsylvania State University, December, 1988.

"Medical Ethics: Clinical Applications." Medical Staff, Kline-Galland Nursing Home, Seattle, January, 1989.

"Geographical Perspectives on Health and Poverty." Department of Health Services, Spring 1989.

"Geography and Emergency Medical Systems." Department of Health Services, July, 1989.

"Dengue Hemorrhagic Fever and Yellow Fever." Tropical Medicine Clinic, University of Washington Medical Center, September, 1989.

"Alternative National Health Care Strategies for the U.S." UW Retirement Association, October 1989.

"Medical Geography and Small Area Analysis." Clinical Scholars Program, October 1989.

"A Values Comparison of the British, Canadian, and American Health Care Systems, Northwest Hospital, February 15, 1990.

"Human Values in Health Care: A Comparison of the British, Canadian, and American Systems." Humanism in Medicine Program, University of Louisville, School of Medicine, First Gheen's Foundation Annual Lecture, March 20, 1990.

"The Role and Function of Hospital Ethics Committees." University of Louisville/Humana Hospital, March 20, 1990.

"Medical Geography and Human Values." Department of Geography, University of Louisville, March 21, 1990.

"Social Values and Health Care Systems." International Health Program, October 1990.

"Diagnosis and Treatment of Tropical Hemorrhagic Fevers." Tropical Medicine Clinic, October 1990.

"The Canadian Health System from an American Values Perspective." Simon Fraser University,. *Canadian Symposium on Medical Geography*. February 1991.

"An Ethical Framework for the Analysis of Euthanasia and Initiative 119." Continuing Medical Education course, Northwest Hospital, October 1991.

"Problems in Defining Geographic Areas for Medical Procedures." Indiana University School of Medicine, Regenstreif Institute, October 1991.

"Geography and Waterborne Diseases." Geography Awareness Week Speaker, Western Washington University, 1993.

"Medical Geography and Demography." Center for Studies on Demography and Ecology, 1994.

"Anesthesia Services and Surgery in Rural Areas." WAMI Rural Health Research Center

"Delusions of Parasitoses," Infectious Disease Service, U.W. Medical Center, September 1995.

"Medical Geography." Center for Studies in Demography and Ecology, University of Washington, 1995.

"Do Emerging Diseases Represent a New Stage in Demographic Transition Theory? Center for Studies in Demography and Ecology, 1996

"Emerging Diseases: the Local and Global Threats." World Health Day, April, 1997.

"The Political Ecology of Emerging Infectious Diseases." New Diseases Group, Harvard University, November, 1997.

"Emerging Infectious Diseases and Political Ecology." University of Texas School of Public Health, November, 1998.

"Medical Geography and Development." Norwegian University of Science and Technology, September, 1999.

"Migration and Malaria: The WHO and the "Roll Back Malaria Program." Center for Studies in Demography and Ecology, 1998.

"The Political Ecology of Lyme Disease in the Northeastern United States," Department of Geography, University of Washington, 1998.

"Global Climate Change and Infectious Disease Patterns." Department of Geography, 1999.

"Geographical Mysteries and West Nile Virus." Department of Geography, 2000.

D. Kuo and Jonathan Mayer, "Smoking at Mid-Life and Public Health." Center for Studies in Demography and Ecology, 2000.

"Social Values and Health Care in the United States and Canada." Canadian Studies Colloquium, University of Washington, 2000.

"Uncertainty, Climate Change, and Human Health." Department of Environmental Health, University of Washington, 2001.

"Climate Change and Infectious Disease: Implications for Population and the Social Science." Center for Studies in Demography and Ecology, University of Washington, 2002.

"Health Perspectives on Sustainability." Panel member, Department of Geography Colloquium, University of Washington, 2002.



“Geography and Epidemiology: Parallel and Divergent Views of Environment and Society.” Department of Epidemiology, May, 2002.

“Uncertainty and the Relationship between Climate Change and Infectious Diseases.” Department of Zoology, December, 2002.

“SARS and the Media” (with Patricia Moy) and “Does Avian Influenza Constitute a Threat to Global Health?” Department of Geography Colloquium, May, 2005.

“Evolution of Virulence.” Guest lecture, Department of Epidemiology “Emerging Infections,” February 2006..

“Applications of GIS and Spatial Analysis to Infectious Diseases Epidemiology.” Guest lecture, Department of Epidemiology, ‘Epidemiology of Infectious Diseases,’ February, 2006.

“It’s a Wormy World.” Special Session on helminthic diseases, with Elaine C. Jong, at International Health Conference, Seattle, WA, February, 2007.

“Water and the Ecology of Infectious Diseases: Examples from Ghana and West Africa.” Water Center Seminar, University of Washington, February, 2007.

“Poverty and Health in a Poor Ghanaian Community.” Department of Geography Colloquium, University of Washington, February, 2007.

“Conducting Epidemiologic Research in the United States and Europe. UW, School of Public Health, Fall, 2008.

“Urban Slum Health in Developing Countries.” Invited keynote address, Environment, Health and Development Network, University of East Anglia, Norwich, UK, June 2009.

“TB Molecular and Spatial Clusters in the Context of Urban Slum Health in Developing Countries. University of Michigan, Center for Molecular and Clinical Epidemiology of Infectious Diseases (MAC-EPID), October, 2009.

“The Health Consequences of Disasters.” Invited keynote, Disasters group, Geological Society of America, Portland OR, October, 2009.

“The Health Consequences of Global Climate Change.” Seattle Rotary, October, 2009.

“Urban Slum Health and the Dual Burden of Disease in Developing Countries.” Invited lecture, University of North Carolina School of Public Health, April 2010.

“What Do We Know About the Geographical and Epidemiologic Features of Chronic Pain?” Invited lecture, Department of Geography, University of North Carolina, April 2011.

“Maps, Geography, and Disease.” Assumption School, Seattle, 5<sup>th</sup> grade, 2013, 2014.

**Papers and Presentations (selected):**

"Winter Navigation Policies on the Great Lakes." Annual Meeting, East Lakes Division, Association of American Geographers, 1976.

"Energy, Coal Transportation Patterns, and Environmental Regulation." With Donald R. Deskins, Jr. Invited paper at American-Hungarian Geography Symposium, Ann Arbor, 1978.

"A Geographical Consideration of Seattle's Medic-I Program." Refereed paper presented at Third National Emergency Medical Services Evaluation Symposium, National Center for Health Services Research. Published abstract, 1978.

"Paramedic Response Time and Survival from Cardiac Arrest." Annual Meeting, Association of American Geographers, Philadelphia, 1979.

"A Predictive Model of Cardiac Arrest Location." Annual Meeting, Association of American Geographers, Louisville, KY, 1980.

"Migrant Studies and Medical Geography." Invited paper, North Carolina Symposium on Medical Geography, University of North Carolina--Chapel Hill, 1980.

"Urban Health Care Planning in a Spatial Context: A Critical Analysis." Invited paper, Fifth Advanced Summer Institute in Regional Science, Soesterberg, Netherlands, 1980.

"Relations between two Traditions of Medical Geography." Annual Meeting, Association of American Geographers, Los Angeles, 1981.

Chair, "Geographical Epidemiology and Health Services Research," Special session, Association of American Geographers, Los Angeles, 1981. Also organized and chaired special sessions on "Geographical Epidemiology and Health Services Research," and organized and chaired Business Meeting, Medical Geography Specialty Group.

"Influenza in Seattle, 1918-1919: Urban Crisis and Response." Annual Meeting, Association of American Geographers, Denver, 1983.

"The Use of Spatial Analysis and Geographic Data in the Detection of Disease Causation." Invited paper, International Conference on the Social Sciences and Medicine, University of Stirling, 1983.

"International Perspectives on the Health Care Crisis in the United States." Plenary Address, Joint Institute of British Geographers/Association of American

Geographers Symposium on Medical Geography, University of Nottingham, 1985.

With Nancy D. Lewis. "Disease as Natural Hazard." Joint Institute of British Geographers/Association of American Geographers International Symposium on Medical Geography, Rutgers University, New Brunswick, N.J., 1986.

With Richard L. Morrill. "A Framework for the Analysis of Migration and Health." Invited paper, Medical Geography Specialty Group Special Session, Association of American Geographers, Minneapolis, 1986.

With Nancy D. Lewis. "Health Care in Post-Revolutionary Cuba." Association of American Geographers, Baltimore, March, 1989.

"Why Do Some Rural Residents Leave Their Home Communities for Outpatient Visits?" Association of American Geographers, Toronto, April 1990.

"Social Values and Health Care Systems." Association of American Geographers, Miami, April 1991.

"Challenges to Understanding Spatial Patterns of Disease: Alternatives to Logical Positivism." Invited discussion Paper, International Conference on the Social Sciences and Medicine, Peebles, Scotland, 1992.

"The Political Ecology of Disease." IBG/IGU Symposium on Medical Geography, University of Exeter, England, July 1993.

"Moral Relativism and Medical Geography: The Role of Locality." International Symposium on Medical Geography, University of British Columbia, July 1994.

Organizer and Chair, Medical Geography Specialty Group Special Session, "Geographical Perspectives on Influenza." Annual Meeting, Association of American Geographers, Denver, 1983.

Organizer and chair, "Spatial Analysis and Disease," by invitation, International Conference on the Social Sciences and Medicine, University of Stirling, Scotland, 1983.

Invited organizer and chair, "Distribution of Health Services Within and Between Nations." International Conference on the Social Sciences and Medicine, Helsinki, Finland, July, 1985.

Chairman, "Quantitative Models in Medical Geography." Medical Geography Specialty Group, Association of American Geographers, Minneapolis, 1986.

Chairman and organizer, "Future Directions in Medical Geography." Medical Geography Specialty Group, Association of American Geographers, Minneapolis, 1986.

"Disease as Natural Hazard," with Nancy D. Lewis, and panelist on "Health Policy in the United States." Second International Symposium on Medical Geography, Rutgers University, July 1986.

"Clinically Applied Medical Geography: Its Relevance for Travel Medicine." International Geographical Union, Working Group on Health, Tasmania, Australia, August 1988.

"Health Care and Social Values: A Comparison of The Canadian and U.S. Health Systems." Invited paper, International Symposium on Medical Geography, Norwich, UK, July 1990.

"Confusion and Conflict About the Goals of Medicine in the Age of Life Supports." With Terry J. Barnett. Refereed paper for "Moral Philosophy in the Public Domain." University of British Columbia, June 1990.

"From Medical Geography to Clinical Ethics and Back Again." Keynote Address, International Medical Geography Symposium, Charlotte, N.C. August 1992.

"The Political Ecology of Emerging Disease." Association of American Geographers, Annual Meeting, Charlotte, N.C., 1996.

"Locality and the Political Ecology of Emerging Diseases." International Symposium on Medical Geography, University of Portsmouth, Portsmouth, U.K. July, 1996.

"Social Science, Human Ecology, and Emerging Diseases." American Association for the Advancement of Science, Seattle, February 1997.

"Geography, Ecology, and Emerging Infectious Diseases." Invited plenary lecture, American College of Occupational and Environmental Medicine, Boston, April, 1998.

"Climate Change and Human Health." Keynote speaker, Washington State Environmental Health Association, Bellingham, WA, May, 1998.

"Shadows of the Past and Visions of the Future: Health and Society in the 21st Century." Keynote address, International Symposium on Medical Geography, Towson, Maryland, 1998.

"Geography, Culture, and Emerging Infections." Plenary speaker, American Society for Clinical Laboratory Science, Tacoma, WA., October, 1998.

"Geography, Ecology, and Emerging Infectious Diseases." Invited lecture, American College of Occupational and Environmental Medicine, Boston, April, 1998.

"The Political Ecology of Lyme Disease in the Northeastern United States." Association of American Geographers, Boston, March, 1998

"Managed Care in the United States: Its Relevance to Canada." Plenary Speaker, Western Canada Health Care Ministries, 1996.

"Response to an Emerging Disease: The E. coli 0157:H7 Outbreak in Washington State." Association of American Geographers, Honolulu, March, 1999.

"Casuistry, Moral Relativism, and Locality." Special session sponsored by Medical Geography Specialty Group on "Ethics and Medical Geography," Association of American Geographers, Honolulu, March, 1999.

D. Kuo and J. Mayer, "Poverty, Family Background, and Smoking at Mid-Life." Population Association of America, refereed paper, annual meeting, Los Angeles, March 2000.

"Place, Telemedicine, and the Doctor-Patient Relationship." Plenary paper, International Symposium on Medical Geography, Montreal, 2000.

"Social Factors in Emerging Infections." Plenary paper, International Symposium on Medical Geography, Montreal, 2000.

"Human and Social Factors and Emerging Infectious Diseases: A Critical Analysis." Invited background paper, International Conference on the Social Sciences and Medicine, Eindhoven, The Netherlands, 2000.

"Globalization and Changing Vector Ecologies: Political Geographic Perspectives." Invited paper, Forum on Emerging Diseases, Institute of Medicine (National Academies), seminar on "Globalization and Emerging Diseases," Washington, 2002.

With Joseph A. P. Miller. "Beyond Hospital-Level Effects: Surgeons, Volume, and Outcomes in Coronary Artery Bypass Surgery." Association of American Geographers, New Orleans, March, 2003.

"HIV/AIDS as an Obstacle to Development in Africa." Invited lecture, University of Ghana, Accra, January, 2004.

“Reconstructing the Spatial Epidemiology of SARS.” With Kam Wing Chan. Association of American Geographers, Philadelphia, March, 2004

“Poverty, Gender, and HIV in Ghana.” Centre for AIDS Research, University of Southampton, June 2004.

“Disease Ecology and HIV in sub-Saharan Africa.” Symposium Commemorating Opening of Centre for AIDS Research, University of Southampton, held at Medical Research Council, London, June 2004.

“Integrating the Social into Climate-Health Associations.” National Center for Atmospheric Research, July, 2005.

“Comparative Dynamics of HIV in sub-Saharan Africa and Asia.” Invited plenary lecture, Symposium on Population Dynamics and Infectious Disease, Singapore, October 2004. Sponsored by National University of Singapore, Australian National University, and Wellcome Trust.

“HIV-AIDS and the Socio-Ecological Model: Where is the Ecology?” Invited plenary paper, Symposium on Social and Ecological Aspects of Emerging Infectious Diseases. East-West Center, Honolulu, Hawai'i, March 2005. Co-sponsored by the Asia-Pacific Institute of Tropical Medicine, John Burns School of Medicine, University Hawai'i.

“SARS and the Media: A Cross-National Analysis.” With Patricia Moy. Association of American Geographers Annual Meeting, Denver, April 2005.

A.L. Pearson, G. Lovasi, B.B. Psaty, **J. D. Mayer**. “Walking for Physical Activity and Objective Crime Data in Five Counties in Washington.” Paper presented at annual meeting, Association of American Geographers, March, 2006.

J.F. Bell, F.J. Zimmerman, G.R. Almgren, **J.D. Mayer**, C.E. Huebner. “Racial Residential Segregation and Birthweight: The Role of Specific Dimension of Segregations.” Paper presented at Population Association of America, March, 2006.

“Health Effects of Natural Disasters.” Invited plenary talk, American Academy of Physician Assistants, San Francisco, May, 2006

“Water, Disease Ecology, and Infection: Examples from West Africa.” UW, Water Center, 2007.

“It's a Wormy World.” With Elaine C. Jong. Western Conference on International Health (90 minute lecture on helminthic disease, ecology, epidemiology, diagnosis, and treatment.

“Overlaps between HIP/NIMA Project and NUFU.” Symposium on Poverty, Health, and Gender, University of Ghana, Accra, December 2006.

Geography Colloquium, UW. Poverty and Health in an Impoverished West African Neighborhood. February 2007.

“Uncertainty and the Relationship Between Environmental Change and Health.” Invited lecture, University of Minnesota School of Medicine, Division of Infectious Diseases of the Department of Medicine. November, 2009.

“Major Problems in Global Health.” Invited keynote address, Obstetrical and Neonatal Nurses Association, Cle Elum, WA (Suncadia Lodge), November, 2008.

“Global Problems and Global Health.” Seattle Rotary, 2009.

Invited keynote speaker, Geological Society of America, to be held in Portland, OR, Oregon Convention Center. “The Health Effects of Disasters.”

Keynote address, Environment, Health, and Development Network, University of East Anglia, Norwich, England. 2009. “Urbanization and Slum Health.”

Keynote address, “The Globalization of Global Health,” Washington State Perinatal Nurse Association, 2009.

“What Do We Know about the Geography and Epidemiology of Pain?” University of Washington, Department of Geography Colloquium, 2010.

\*E. Oren, **JD Mayer**, Association Between Area-Based Socioeconomic Disadvantage and Tuberculosis Clustering: A Multilevel Approach. 14<sup>th</sup> International Medical Geography Symposium, Durham University, UK, July 2011.

Mayer, JD. “The One Health Movement: Something New/Something Old?” Paper presented at XV International Symposium on Medical Geography, East Lansing, MI. July, 2013.

## **GRANTS:**

Geography, GIScience, and Health:  
Spatial Frontiers of Health  
Research and Practice. NIH, 2012-present. Role: Co-investigator

Pediatric heart transplants and geographic inequalities. Co-investigator with Yuk Law and Clarence Spigner. Seattle Childrens Hospital

Medical Scientist Training Program. NIH, National Institute of General Medical Sciences. Co-Investigator (Loeb). 2008-2010.



"People, Primates, and Pathogens: An Eco-Social Study of Cross-Species Disease Transmission in Western Uganda." With Sarah Paige, co-PI, doctoral dissertation award, National Science Foundation, 2009. Division of Geography and Spatial Sciences. NSF Award 0902582, \$12,000.

"Vulnerability and Health: Economic Development in a Ugandan Pastoralist Community." Co-PI on behalf of Amber Pearson, MPH. National Science Foundation, Division of Geography and Spatial Sciences. NSF Award 0826465, 2008-2010.

" Comparison of Traveler's Diarrhea in User's of Atovaquone-Proguanil Vs. Doxycycline for Malaria Prophylaxis in sub-Saharan Africa." Chris Sanford, MD, MPH, co-investigator. Department of Epidemiology recruitment grant, University of Washington, 2009-. In progress: patients recruited, data being analyzed 4/2013.

"New Faces of Poverty in Ghana." Co-Investigator and Division subdirector, Health. \$1.5 million to Norwegian University of Science and Technology, Trondheim from NORAD, Norway. My portion concentrates on HIV, poverty, and gender. Recent concentration on HIV orphans with Dr. Ragnhild Lund, Norwegian University of Science and Technology.

"Washington State Pharmacy Study." Co-investigator with John Loeser, MD. Grant (\$25,000) from Purdue Pharmaceuticals to investigate geographical patterns of availability of outpatient pain medications in Washington State.

Institutional Research Grant, "The Canadian Health Care System" Office of Academic Relations, Canadian Embassy.

Doctoral Dissertation Research in Geography and Regional Science. Co-PI with Elizabeth R. G. Kohlenberg. 1986-1988. Award 8514432, \$12,000.

"A Small Area Analysis of Back Surgery in Washington State," National Center for Health Services Research, National Institutes of Health. Department of Neurological Surgery, with John Loeser, M.D., co-principal investigator.

Group Travel Support For the Eighth International Conference on the Social Sciences and Medicine, Stirling, Scotland, August 22-26, 1983. Role: PI. Award **8218370**. \$3,200.

"Spatial and Demographic Determinants of Rural Hospital Viability," National Science Foundation, 1983-1985. Principal Investigator. Award 8311962. \$24,947.

Principal Investigator, National Science Foundation Block Travel Grant to Association of American Geographers for attendance at International Conference on the Social Sciences and Medicine, Scotland, 1983.

Rural Hospital Project, Kellogg Foundation, Department of Family Medicine, University of Washington, 1983-present. Project member and one of the proposal authors on this \$1.2 million demonstration project to increase the viability of rural hospitals in the Pacific Northwest.

"Patterns of Mortality in Early Seattle." Biomedical Research Grant, Graduate School Research Fund, University of Washington, and U.S. Public Health Service, 1981.

"Patient Travel Patterns." Rhode Island Center for Health Services Research and National Center for Health Statistics, National Institutes of Health, 1979.

"Geographical Aspects of Emergency Medical Services." Department of Health Services Seed Grant, University of Washington, 1978.

"Air Services to Small Communities." Graduate School Research Fund, University of Washington, 1978.

Dissertation Grant. Horace Rackham School of Graduate Studies, The University of Michigan, 1976-77.

#### **AWARDS/OTHER HONORS:**

Horace Rackham Predoctoral Fellowship, The University of Michigan, 1975-77.

Graduate Fellowship, The University of Michigan, 1974-75.

Ford Foundation Fellowship, The University of Michigan, 1973-74.

Visiting Research Fellowship, Rhode Island Health Services Research, Providence, RI, 1979.

German Marshall Fund Travel Grant, 1980. To attend Fifth Advanced Summer Institute in Regional Science, Soesterberg, The Netherlands, 1980.

Kellogg National Fellow, 1984-1987. Selected as one of 43 fellows out of 860 applicants for this three year fellowship to study the multidimensional ethical, humanistic, economic and social implications and bases of health care policy. This has included participant observation in cardiothoracic surgery, family practice, emergency medicine, and tropical/travel medicine. The Fellowship has also included an emphasis on international health, and on leadership development.

National Research Council Travel Grant. To attend International Geographical Union, 1988.

**Elected to membership, American College of Epidemiology, 2003. Have now been nominated as Fellow, American College of Epidemiology.**

**PROFESSIONAL ORGANIZATIONS (selected):**

Association of American Geographers; American Public Health Association; Global Health Council; Infectious Disease Society of America; International Society for Infectious Diseases; American Association for the Advancement of Science; American Society of Tropical Medicine and Hygiene; International Society for Environmental Epidemiology; Society for Epidemiologic Research. American College of Epidemiology (elected to membership, 2003), International Epidemiologic Association; International Association for the Study of Pain, American Pain Society, American Heart Association; American Thoracic Society.

**PROFESSIONAL REVIEWING:**

Referee, numerous tenure and promotion decisions, U.S., Canadian, European, New Zealand and Australian universities.

Multiple proposal reviews for National Science Foundation, Occupational Safety and Health Administration, National Institutes of Health, National Science Foundation, National Endowment for the Humanities, W.K. Kellogg Foundation (Kellogg Fellowship Program), MacArthur Foundation (MacArthur Fellowships), US. Department of State.

Multiple manuscript reviews for The Professional Geographer, Health Services Research, American Journal of Public Health, Urban Geography, Annals of the Association of American Geographers, Social Science and Medicine, Geographical Analysis, Journal of Gerontology, TESSG, Growth and Change, Medical Care, Association of Pacific Geographer's Yearbook, The Southeastern Geographer, Annals of Epidemiology and other journals in public health, epidemiology, and clinical medicine.

## PUBLICATIONS AND PAPERS:

\*=article with supervisee as first author

### Journal Articles:

**Mayer, J.D.** 1977. "Local and Commuter Airlines in the United States." *Traffic Quarterly*, . 31, pp. 333-349.

**Mayer, J. D.** 1979. "Seattle's Paramedic Program: Geographical Distribution, Response Times, and Mortality." *Social Science and Medicine*, 13D, pp. 45-52. PMID: 462221 [PubMed - indexed for MEDLINE]

**Mayer, J. D.** "Emergency Medical Services: Delays, Response Times, and Survival." *Medical Care*, 17, pp. 818-827. PMID: 470471 [PubMed - indexed for MEDLINE]

**Mayer, J. D.** 1979. "Paramedic Response Time and Survival from Cardiac Arrest." *Social Science and Medicine*, 13D, pp. 267-272. PMID: 524134 [PubMed - indexed for MEDLINE]

**Mayer, J. D.** 1980. "Response Time and its Significance in Medical Emergencies." *The Geographical Review*, 70, pp. 45-52,.

**Mayer, J. D.** 1980. "Urban Ecology and Location Theory: Dominance Territory." *Geoforum*, 11, pp. 399-407,.

**Mayer, J. D.** 1981. "Geographical Clues About Multiple Sclerosis." *Annals of the Association of American Geographers*, 71, pp. 28-39.

**Mayer, J. D.** 1981. "A Method for the Geographical Evaluation of Emergency Medical Services." *American Journal of Public Health*, 71, pp. 841-844. PMID: 7258446 [PubMed - indexed for MEDLINE]

**Mayer, J. D.** 1981. "Geographical Patterns of Cardiac Arrest: An Exploratory Model." *Social Science and Medicine*, Vol. 15D, pp. 329-334. PMID: 7323866 [PubMed - indexed for MEDLINE]

**Mayer, J. D.** 1982. "Medical Geography: Some Unsolved Problems." *The Professional Geographer*, 34, pp. 261-269.

**Mayer, J. D.** 1982. "Relations between Two Traditions of Medical Geography." *Progress in Human Geography*, 6, pp. 216-230.

**Mayer, J. D.** 1983. "The Role of Spatial Analysis and Geographic Data in the Detection of Disease Causation." *Social Science and Medicine*, 17, pp. 1213-1221. PMID: 6623127 [PubMed - indexed for MEDLINE]

**Mayer, J. D.** 1983. "The Distance Behavior of Hospital Patients: A Disaggregated Analysis." *Social Science and Medicine*, 17, pp. 819-827.

**Mayer, J. D.** 1984. "Medical Geography: An Emerging Discipline." *JAMA* (Journal of the American Medical Association), 251, 2680-2683. Selected by the editors of the Chinese edition for translation into Chinese and distribution in the Peoples' Republic of China.

**Mayer, J. D.** 1986. "An International Perspective on the Health Care Crisis in the United States." *Social Science and Medicine*, 23, pp. 1059-1065. Invited paper presented at the British-American Medical Geography Symposium, of Nottingham, July 1985.

**Mayer, J. D.** 1987, Kohlenberg, E. R., Sieferman, G. E., Roseblatt, R. A "Patterns of Rural Hospital Closure." *Social Science and Medicine*, 24, pp. 327-334.

Lewis, N. D., **Mayer, J. D.** 1988. "Disease as Natural Hazard." *Progress in Human Geography*, 16, pp. 15-33.

**Mayer, J. D.** 1989. "Doing Interdisciplinary Research in Social Sciences and Medicine," *Family Medicine*, 21, pp. 211-216. PMID: 2744290 [PubMed - indexed for MEDLINE]

**Mayer, J. D.** 1989. "Clinically Applied Medical Geography: Its Relevance for Travel Medicine." *The Professional Geographer*, 41, pp. 421-428.

**Mayer, J. D.** 1990. "The Centrality of Medical Geography to Human Geography: The Traditions of Geographical and Medical Geographic Thought." *Geogr. Tidsskr Norsk*, 44, pp. 175-187,

**Mayer, J. D.** 1991. "Medical Geography as a Public Health Discipline." *Washington Public Health*, 9, pp.19-21.

Volinn, E., **Mayer, J. D.** 1992. "Small Area Analysis of Surgery for Low Back Pain.", *Spine*, 17, pp. 575-581.

**Mayer, J. D.** 1992. "Challenges to Understanding Spatial Patterns of Disease: Philosophical Alternatives to Logical Positivism." *Social Science and Medicine*, Vol. 35, pp. 579-588, 1992. PMID: 1519111 [PubMed - indexed for MEDLINE]

**Mayer, J. D.**, Meade, M. S. 1994. "A Reformed Medical Geography Reconsidered." *The Professional Geographer*, 46, pp. 103-106

**Mayer, J. D.** 1994. "The Geography of Disease and Epistemology." *Sistema Terra: Remote Sensing and the Earth*, 3, pp. 6-7,

\*Roberts, C., **Mayer, J. D.**, Henderson, W. R. 1996. "Asthma Deaths in Washington State, 1980-1989: Geographic and Demographic Distributions." *Annals of Allergy, Asthma, and Immunology*. 76, pp. 20-26. PMID: 8564624 [PubMed - indexed for MEDLINE]

Kimball, A.M, **Mayer, J. D.** 1996, "Are Emerging Infectious Diseases a Threat to the Northwest? *Washington Public Health*,

**Mayer, J. D.** 1996. "The Political Ecology of Disease as a New Focus for Medical Geography." *Progress in Human Geography*, 20, pp. 441-456.

Dunbar, P. J., **Mayer, J. D.**, Fordyce, M. A., Lishner, D. M., Hagopian, A., Spanton, K., Gart, L. G. 1998. "Availability of Anesthesia Providers in Rural Washington and Montana." *Anesthesiology*, 88, pp. 800-808. PMID: 9523826 [PubMed - indexed for MEDLINE]

**Mayer, J. D.** 1998, "Surveillance and Control of Emerging Infectious Diseases." *Applied Geographical Studies*, 2, pp. 261-278.

**Mayer, J. D.** 2000. "Geography, Ecology, and Emerging Infectious Diseases." *Social Science and Medicine*, 50, pp. 937-952. PMID: 10714918 [PubMed - indexed for MEDLINE]

**Mayer, J.D. and others.** 2001. *Under the Weather: Climate, Ecosystems, and Infectious Disease*. Washington: National Academy Press.

**Committee on Climate, Ecosystems, Infectious Disease, and Human Health, National Research Council, Washington, DC, USA.** 2001 *Under the weather: climate, ecosystems, and infectious disease. Emerging Infectious Diseases*, 2001;7(suppl):606-608.

**Mayer, J. D.** 2005. "The Geographical Understanding of HIV/AIDS in sub-Saharan Africa." *Norsk Geografisk Tidsskrift-Norwegian Journal of Geography*, 59, 1-8.

**Mayer, J. D.** 2005. "HIV/AIDS as an Impediment to Development in sub-Saharan Africa." *Proceedings, NUFU Conference on Gender, Poverty, and Health*.

Bell JF, Zimmerman FJ, Almgren GR, **Mayer JD**, Huebner CE. 2006. Birth Outcomes Among Urban African-American Women: A Multilevel Analysis of the

Role of Residential Segregation. *Social Science and Medicine*. 2006, 63: 3030-3045. Epub 2006 Sep 25.  
PMID: 16997438 [PubMed - indexed for MEDLINE]

**Earth Materials and Public Health**. 2007. Washington: National Academy Press, with co-authors. I wrote the sections on geospatial analysis, the nature of epidemiologic analysis and epidemiologic data, and the nature of public health—and some of the sections on routes of exposure, Lyme disease, arsenicosis (pathologically high levels of arsenic, such as in Bangladesh).

Bell JF, Zimmerman FJ, **Mayer JD**, Almgren GR, Huebner CE. 2007. Associations between residential segregation and smoking during pregnancy among urban African-American women *Journal of Urban Health* 2007;84:372-88.

Bell, JF, Zimmerman FJ, Mayer JD, Almgren GR, Huebner CE. Birth outcomes among urban African-American women: a multilevel analysis of the role of racial residential segregation. *Soc Sci Med*. 2006 Dec;63(12):3030-45. Epub 2006 Sep 25.  
PMID: 16997438 [PubMed - indexed for MEDLINE]

Committee on the Effective Use of Data, Methodologies, and Technologies to Estimate Subnational Populations at Risk. 2007. *Tools and Methods for Estimating Populations at Risk from Natural Disasters and Complex Humanitarian Crises*. Washington: National Academies Press.

**Mayer, J.D.**, Kirilin, B., Rehm, C. D., Loeser, J.D. 2007. The availability of opioids in Washington State. *Clinical Journal of Pain*, 2008;24:120-125.

\*Pearson AL, Roberts MC, **Mayer J**, Long V, Meschke JS. Utility of EC 3M™ petrifilms™ for Relative Contamination Assessment of Source Water Southwestern Uganda. *Water SA* 2008;34 (2):1-5.

Fries, B.C. and **Mayer, J.** Climate change and infectious disease. *Interdisciplinary Perspectives on Infectious Diseases*. 2009, Article ID 976403, doi:10.1155/2009/976403. Mayer and Fries, Editors of special edition on Climate Change and Infection

**Mayer, J.D.** Sample size calculations: must do better. *BMJ* (British Medical Journal) 2009;338:b2323. doi: 10.1136/bmj.b232

Carter, G.T, Aggarwal, S.K., Sullivan, M.D., Morrill, R.L., ZumBrunnen, C., **Mayer, J.D.** (senior author)., Medicinal use of cannabis in the United States: Historical perspectives, current trends, and future perspectives. *Journal of Opioid Management* 2009;5:257-286.

- \*Aggarwal, S.K., Carter, G.T., Sullivan, M.D., ZumBrunnen, C., Morrill, R., **Mayer, J.D.**(senior author). Characteristics of patients with chronic pain accessing treatment with medical cannabis in Washington State. *Journal of Opioid Management* 2009;5:257-286. PMID: 19947069 [PubMed - indexed for MEDLINE]
- \*Stanaway, J.D. and **Mayer, J.D.** Climate Variability and Change and Its Effects on Malaria. *Geography Research Forum* •2011; 31: 6-23
- \*Aggarwal SK, Carter GT, Sullivan MD, ZumBrunnen C, Morrill R, **Mayer JD**. Medicinal use of cannabis in the United States: Historical perspectives, current trends, and future directions. *J Opioid Manag.* 2009 Sep-Oct;5(5):257-86. PMID: 19947069 [PubMed - indexed for MEDLINE]
- \*Aggarwal SK, Carter GT, Sullivan MD, ZumBrunnen C, Morrill R, Mayer JD. Prospectively Surveying Health-Related Quality of Life and Symptom Relief in a Lot-Based Sample of Medical Cannabis-Using Patients in Urban Washington State Reveals Managed Chronic Illness and Debility. *Am J Hosp Palliat Care* 2012;1-9. [Epub ahead of print] DOI: 10.1177/1049909112454215
- \*Aggarwal SK, Carter GT, Zumbrunnen C, Morrill R, Sullivan M, **Mayer JD**. [Psychoactive substances and the political ecology of mental distress](#). *Harm Reduct J.* 2012 Jan 18;9(1):4. [Epub ahead of print] PMID: 22257499 [PubMed - as supplied by publisher]
- \*Aggarwal SK, Carter GT, Sullivan MD, Zumbrunnen C, Morrill R, **Mayer JD** Prospectively Surveying Health-Related Quality of Life and Symptom Relief in a Lot-Based Sample of Medical Cannabis-Using Patients in Urban Washington State Reveals Managed Chronic Illness and Debility. *Am J Hosp Palliat Care.* 2012 Aug 10. [Epub ahead of print] PMID: 22887696
- \*Oren, E., Koepsell, T., LeRoux, B., **Mayer, JD** (senior author). Socioeconomic factors and tuberculosis incidence. *Lancet Infectious Diseases* under consideration.
- \*Oren, E., Narita, M., Nolan, C., and **Mayer, JD**. "Area-based socioeconomic disadvantage and tuberculosis incidence." *The International Journal of Tuberculosis and Lung Disease* 2012;16:880-885. <http://dx.doi.org/10.5588/ijtld.11.0700> E-published ahead of print 7 May 2012
- \*Aggarwal SK, Carter GT, Sullivan MD, Morrill R, ZumBrunnen C, **Mayer JD**. Distress, Coping, and Drug Law Enforcement in a Series of Medical Cannabis Patients. *J Nerv Ment Dis* 2013; 201(4): 292-303 PMID: 23538974 doi: 10.1097/NMD.0b013e318288d333.
- \*Oren, E., Narita, M., Nolan, C., and **Mayer, JD** "Area-Level Socioeconomic



Disadvantage and Severe Pulmonary Tuberculosis: U.S., 2000-2008.” *Public Health Reports* 2013;129:99-109

\*Aggarwal, S.K., Carter, G.T., ZumBrunnen, C., Morrill, R., Sullivan, M. and **Mayer, JD**. From 32 ounces to zero: a medical geographic study of dispensing a cultivated batch of “plum” cannabis in flowers to medical marijuana patients in Washington State. *Journal of Psychoactive Drugs*, 45 (2), 141–155, 2013. DOI: 10.1080/02791072.2013.785835

\*Psoter KJ, De Roos AJ, Wakefield J, **Mayer J**, Rosenfeld M. Season is associated with *Pseudomonas aeruginosa* acquisition in young children with cystic fibrosis. *Clin Microbiol Infect*. 2013 Nov;19(11):E483-9. doi: 10.1111/1469-0691.12272. Epub 2013 Jun 25.

Oppong, J., **Mayer, J.**, and Oren, E (equal first authors). The global health threat of African urban slums: the example of urban tuberculosis. *African Geographical Review*, 2014; DOI: 10.1080/19376812.2014.910815

\*Colombara DV, Faruque AS, Cowgill KD, **Mayer JD**. Risk factors for diarrhea hospitalization in Bangladesh, 2000-2008: a case-case study of cholera and shigellosis. *BMC Infectious Diseases* 2014, 14:227 doi:10.1186/1471-2334-14-227

\*Oren, E., Narita, M. Nolan, C. and **Mayer, J**. Neighborhood socioeconomic position and tuberculosis transmission: a retrospective cohort study *BMC Infectious Diseases* 2014, 14:227 doi:10.1186/1471-2334-14-227

\*Psoter KJ, Rosenfeld M, De Roos AJ, Mayer JD, Wakefield J. Differential geographical risk of initial *Pseudomonas aeruginosa* acquisition in young US children with cystic fibrosis. *American Journal of Epidemiology* 2014;179:1503-13.

\*Paige, S., Malave, C., Mbabazi, E., Goldberg, T., and **Mayer, J**. Uncovering zoonoses awareness in an emerging disease ‘hotspot.’ *Soc Sci Med*. 2015;129:79-86 Jul 30. pii: S0277-9536(14)00498-5. doi: 10.1016/j.socscimed.2014.07.058. [Epub ahead of print]

\*Psoter KJ1, De Roos AJ, Mayer JD, Kaufman JD, Wakefield J, Rosenfeld M. Fine Particulate Matter Exposure and Initial *Pseudomonas aeruginosa* Acquisition in Cystic Fibrosis. *Ann Am Thorac Soc*. 2015 Jan 16. [Epub ahead of print]. PMID: 25594356

\*Pearson AL, **Mayer JD**, Bradley DJ. Coping with household water scarcity in the savannah today: Implications for health and climate change into the future. In press, *Earth Interactions*.

Psoter KJ, DeRoos AJ, Wakefield J, **Mayer J**, Rosenfeld M. Seasonality of common respiratory infections in young children with cystic fibrosis. Submitted, *Clinical microbiology and infection*.

Psoter KJ, DeRoos AJ, Wakefield J, **Mayer J**, Rosenfeld M. Air pollution exposure is associated with MRSA acquisition in young U.S. children with cystic fibrosis. Submitted, *Journal of infectious diseases*.

\*Psoter KJ, De Roos AJ, Wakefield J, **Mayer JD**, Bryan M, Rosenfeld M. Association of meteorologic and geographical factors and risk of initial *Pseudomonas aeruginosa* acquisition in young children with cystic fibrosis. *Epidemiology and Infection* 2016;144:1075-1083.

Peter S. Liang, **Jonathan D. Mayer**, Jon Wakefield, Cynthia W. Ko Temporal Trends in Geographic and Sociodemographic Disparities in Colorectal Cancer, 1973-2010, **submitted, Gastroenterology**.

### **Book Chapters:**

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### **MISCELLANEOUS:**

My work has been profiled in *American Way* (American Airlines in-flight magazine), December 21, 1984, and *American Medical News* (American Medical Association), December 21, 1984. Also profiled on KUOW and National Public Radio, 1996; Columns; University Week, and other press and broadcast media.

The work of HIP and of Julia Lowe (JSIS graduate) and Jonathan Mayer have been profiled in the Fall 2006 edition of the Arts and Sciences Newsletter "Perspectives" and UW Annual Report.