

BENJAMIN ALTHOUSE – CURRICULUM VITAE

CONTACT Department of Epidemiology
Johns Hopkins Bloomberg School of Public Health
Baltimore, MD, 21205-2179
E-mail: balthous@jhsph.edu
Homepage: <http://www.benalthouse.com/academics>

PERSONAL DATA Date of birth January 30, 1985

PROFILE

RESEARCH INTERESTS Mathematical modeling of infectious disease, medical economics, bibliometrics.

OTHER INTERESTS Downhill skiing, running, hiking, graphic design, jazz music and photography.

EDUCATION

2009 – 2010 **ScM** Biostatistics; Johns Hopkins University, Baltimore, MD

2003 – 2008 **BS** Mathematics; University of Washington, Seattle, WA
BS Biochemistry; University of Washington, Seattle, WA

POSITIONS

AUGUST 2010 – Doctoral Student – Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health

AUG. 2009 – AUG. 2010 Master's Student – Department of Biostatistics, Johns Hopkins Bloomberg School of Public Health

JUNE 2008 – AUG. 2009 Research Associate, Prof. Carl Bergstrom's lab, Department of Biology, University of Washington

JUNE 2006 – MAY 2008 Undergraduate Research Assistant, Bergstrom lab

AWARDS

APRIL 2010 – NSF Graduate Research Fellowship

JUNE 2009 Best Poster, Gordon Research Conference (Microbial Population Biology)

JAN. – JUNE 2008 Mary Gates Research Scholarship (award of \$4,000)

JAN. – OCT. 2007 Howard Hughes Medical Institute Integrative Research Internship (award of \$7,000)

PUBLICATIONS

B. M. Althouse, Y.Y. Ng, D.A.T. Cummings, *Prediction of Dengue Incidence using Search Query Surveillance*, PLoS Neglected Tropical Diseases 5(8): e1258. doi:10.1371/journal.pntd.0001258, Aug. 2011

B.M. Althouse, *A Multi-host, Multi-vector SIR Model of Dengue Fever in Senegal*, Master's Thesis, Johns Hopkins Bloomberg School of Public Health, Aug. 2010

B.M. Althouse, T. Bergstrom, and C.T. Bergstrom, *A Public Choice Framework for Controlling Transmissible and Evolving Diseases*, Proceedings of the National Academy of Sciences of the United States of America, 107: 1696-1701, Jan. 2010

B.M. Althouse, J.D. West, T. Bergstrom, and C.T. Bergstrom, *Differences in Impact Factor Across Fields and Over Time*, Journal of the American Society for Information Science and Technology. Vol. 60, No.1, (27-34), Jan. 2009

MANUSCRIPTS

B. M. Althouse, J. W. Ayers, J. Patrick-Allem, M. A. Childers, K. M. Ribisl and J. S. Brownstein *Monitoring Real-Time Increases In Population Physical Morbidities Due to Job Loss During the Great Recession using Internet Search Queries*, submitted

B. M. Althouse, J. Lessler, A.A. Sall, M. Diallo, K.A. Hanley, D.M. Watts, S. C. Weaver, D.A.T. Cummings *Synchrony of Sylvatic Dengue Isolations: A Multi-host, Multi-vector SIR Model of Dengue Virus Transmission in Senegal*, submitted

J. W. Ayers, B. M. Althouse, J.P. Allem, D. E. Ford, K. M. Ribisl, J. E. Cohen *Real-Time Responses to World No Tobacco Day in Latin America*, submitted

J. W. Ayers, B. M. Althouse, *The reach of e-cigarettes on the Internet has been understudied and potentially threatens global health*, submitted

J. W. Ayers, B. M. Althouse, J.P. Allem, M. A. Childers, W. Zafar, C. Latkin, K. M. Ribisl, J. S. Brownstein, submitted

S. Chadsuthi, B.M. Althouse, S. Iamsirithaworn, W. Triampo, D.A.T. Cummings, *Travel distance and human movement predict paths of emergence and spatial spread of Chikungunya in Thailand*, in preparation

J.P. Allem, B. M. Althouse, D.E. Ford, J. S. Brownstein, J. W. Ayers, *Assessing Seasonality in Mental Health Inquires*, in preparation

ABSTRACTS

B. M. Althouse, Y.Y. Ng, D.A.T. Cummings, *Prediction of Dengue Incidence using Search Query Surveillance*, Oral Presentation, American Society of Tropical Medicine and Hygiene 60th Annual Meeting, December 4-8, 2011, Philadelphia, PA.

A. Azman, H. Salje, B. Althouse, I. Rodriguez-Barraquer, T. P. Endy, A. Nisalak, R. Jarman, R. Gibbons, D.A.T. Cummings, *Longitudinal Characterization of Antibody Response to Dengue Virus in Bangkok Thailand*, American Society of Tropical Medicine and Hygiene 60th Annual Meeting, December 4-8, 2011, Philadelphia, PA.

B. M. Althouse, J. Lessler, N.G. Riech, D.A.T. Cummings, *Heterogeneous transmission patterns in homogeneous populations*, Epidemics 3, Nov. 29th-Dec. 2nd, 2011, Boston, MA.

S. Chadsuthi, B. Althouse, S. Iamsirithaworn, W. Triampo, D.A.T. Cummings, *Climate, land use and travel times predict the spatial advance of cases of Chikungunya during an outbreak in southern Thailand*, Epidemics 3, Nov. 29th-Dec. 2nd, 2011, Boston, MA.

B.M. Althouse, A. Sall, K. Hanley, M. Diallo, D. Watts, S. Weaver, D.A.T. Cummings, *A Multi-host, multi-vector SIR model of Dengue 2 virus in Senegal*, Oral Presentation, American Society of Tropical Medicine and Hygiene 59th Annual Meeting, November 3-7, 2010, Atlanta, GA.

B. Althouse, A. Sall, M. Diallo, S. Weaver, D. Watts, K. Hanley, D.A.T. Cummings, *A Multi-host, Multi-vector SIR Model of Dengue Virus Transmission in Senegal*, MIDAS Network Meeting, Pittsburgh Supercomputing Center, October 7-8, 2010

J. Nahum, B.M. Althouse, J.D. West, C. Ofria, B. Kerr, *Traversing Fitness Landscapes by Changing Environments*, Gordon Research Conference (Microbial Population Biology) Proctor Academy, NH, (July 20-24, 2009), *Winner: Best Poster Award*

B.M. Althouse, J.D. West, and C.T. Bergstrom, *A Novel Method for Ranking the Quality of Cardiology Literature*, American College of Cardiology Scientific Sessions, March 2009, Orlando, FL.

B.M. Althouse, J.D. West, T. Bergstrom, and C.T. Bergstrom, *Differences in Impact Factor Across Fields and Over Time*, Undergraduate Research Symposium, University of Washington, May 16, 2008

B. M. Althouse, *Directed Evolution of Human Apolipoprotein A-I Milano Protein and Expression in Escherichia coli*, Transcatheter Therapeutics (TCT), October 2007, Washington, D.C.

J.D. West, M. Rosvall, B.M. Althouse, C.T. Bergstrom, *Ranking and Mapping Scholarly Literature*, Gordon Research Conference (Microbial Population Biology), July 22-27, 2007, Proctor Academy, NH

PROFESSIONAL ACTIVITIES

Reviewer for: PLoS Neglected Tropical Diseases, PLoS One, BMC Infectious Diseases, the Harvard Review of Psychiatry, the American Journal of Public Health.

Elected Treasurer Student Assembly Johns Hopkins Bloomberg School of Public Health (2011-2012); Elected Member-at-large Student Assembly JHSPH (2010-2011).

Student Leader, Modeling of Spatial and Temporal Disease Epidemiology Forum (MOST-DEF) Speaker Series, (2011-12)

TEACHING

Teaching Assistant, Spring 2010, 2011: 340.677, *Infectious Disease Dynamics: Theoretical And Computational Approaches*; Summer 2011: 140.611-2, *Graduate Summer Institute of Epidemiology and Biostatistics: Statistical Reasoning in Public Health I & II*; Winter 2012: 340.609, *Concepts and Methods in Infectious Disease Epidemiology*

Short course in Search Query Surveillance, UNC Chapel Hill, Jan. 2012