

BIOGRAPHICAL SKETCH

NAME Ngo, Long		POSITION TITLE	
eRA COMMONS USER NAME (credential, e.g., agency login) longngo		Assistant Professor in Medicine (Biostatistics)	
EDUCATION/TRAINING			
INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
California State University, Fullerton CA	B.S.	1987	Computer Science
University of California, Berkeley CA	M.A.	1989	Statistics
University of California, Berkeley CA	Ph.D.	2000	Biostatistics
Harvard University	Fellowship	2002	Biostatistics

A. Positions and Honors.

Positions and Employment

1987-1989	Graduate Student Instructor, Department of Statistics, U.C. Berkeley, CA
1988	Programmer Analyst, IBM Almaden Research Center, San Jose, CA
1989-1992	Statistician, Veterans Administration Medical Center, San Francisco, CA
1990-1999	Manager/Director of Biostatistics, Ischemia Research, San Francisco, CA
1999-2001	Senior Data Consultant, Kaiser Permanente, Oakland, CA
1997, 2001	Lecturer, School of Public Health, University of California, Berkeley, CA
2002-2004	Fellow, Harvard University Department of Biostatistics, Boston, MA
2004	Instructor in Medicine, Harvard Medical School, Boston, MA
2005-	Assistant Professor in Medicine (Biostatistics), Harvard Medical School, Boston, MA

Other Experience and Professional Memberships

1983-1987	Dean's List in Computer Science and Mathematics
1987	Chairman's Scholastic Achievement Award in Mathematics
1987-	Member, Golden Key National Honor Society
2000-	SAS Certified Professional
1998-2001	Member, SAS Institute's Quality Partner
2002-2004	Fellowship, Harvard University Department of Biostatistics, Boston, MA
2003-	Member, American Statistical Association
2004-	Member, Editorial Review Board, Journal of Clinical Endocrinology and Metabolism
2004	Best Statistical Paper Award, SUGI Conference, Montreal, Canada
2005	Member of Study Review Panel, Health Effects Institute, Boston, MA
2005	Reviewer, Journal of the American Statistical Association (JASA)
2006	Reviewer, Journal of Population Health Metrics
2007-	Reviewer, Radiology
2007-	Reviewer, Journal of Biopharmaceutical Statistics
2007-	Committee member, American Statistical Association Ambassador Program with Vietnam
2009-	Committee member, American Statistical Association National Committee on Statistics and Disability

B. Selected Peer-Reviewed Publications (in chronological order).

- Colford JM Jr, **Ngo L**, Tager I. Factors associated with survival in human immunodeficiency virus-infected patients with very low CD4 counts. *Am J Epidemiol.* 1994 Jan 15;139(2):206-18.
- Tager IB, **Ngo L**, Hanrahan JP. Maternal smoking during pregnancy. Effects on lung function during the first 18 months of life. *Am J Respir Crit Care Med.* 1995 Sep;152(3):977-83.
- Ngo L**, Tager IB, Hadley D. Application of exponential smoothing for nosocomial infection surveillance. *Am J Epidemiol.* 1996 Mar 15;143(6):637-47.

4. **Ngo L.**, Brand R. Model selection in linear mixed effects models using SAS proc mixed. Technical proceedings, statistics and data analysis, SAS Users Group International 22, 1997.
5. **Ngo L.** An application of a two-stage linear model on estimating the effect of intervention on loss of ventilary function over time. Proceedings of the Biometrics Section. Annual Meeting American Statistical Association, 1997.
6. **Ngo L.** Investigating the performance of model selection criteria using SAS/IML, and SAS Macro. Technical proceedings of the Western SAS Users Group, Statistics and Data Analysis, 1998.
7. Haight T, **Ngo L**, Tager I. Quantifying regression to the mean using Proc MIXED. Technical proceedings of the Western SAS Users Group, Statistics and Data Analysis, 1999.
8. Sternfeld B, **Ngo L**, Satariano WA, Tager IB. Associations of body composition with physical performance and self-reported functional limitation in elderly men and women. *Am J Epidemiol.* 2002 Jul 15;156(2):110
9. Sternfeld B, **Ngo L**, Satariano W, Tager I. Sternfeld et al. Respond to: "Body Composition in Studies of Aging" *American Journal of Epidemiology*, 2002 156: 125-126.
10. Gonzales M, **Ngo L**, Hammond SK, Tager I. Validation of a questionnaire and microenvironmental model for estimating past exposures to ozone. *Int J Environ Health Res.* 2003 Sep;13(3):249-60.
11. Whitney J.M., **Ngo L.** (2004), Bayesian model averaging using the SAS Software, Technical Proceeding, Statistics and Data Analysis, SUGI 29, SAS Institute, Cary, NC.
12. Mezzetti M, Ibrahim JG, Bois F, Ryan LM, **Ngo L**, Smith TJ (2003), A Bayesian compartmental model for the evaluation of 1,3-Butadiene metabolism, *J Royal Stat Society, Series B (Applied Statistics)*, Vol 52, Part 3, pp. 291-305.
13. **Ngo L**, Wand MP. (2004), Smoothing with mixed model software, *J of Stat Software.* Vol 9, Issue 1, pp 1-54
14. Tager I, **Ngo L**, Balmes J, Lurmann F, Kuenzi N. Ambient ozone and lung function. *Epidemiology.* 2006 May;17(3):344-345.
15. McCarthy EP, **Ngo L**, Roetzheim RG, Chirikos TN, Li D, Drews RE, Iezzoni LI. Disparities in breast cancer treatment and survival for women with disabilities. *Ann Intern Med* 2006;145:637-45.
16. Iezzoni L, **Ngo L.** Health, disability, and life insurance experiences of working-age persons with multiple sclerosis. *Muli Scler.* Jan 29, 2007.
17. McCarthy EP, **Ngo L**, Chirikos TN, et al. Cancer stage at diagnosis and survival among persons with social security disability insurance on Medicare. *Health Serv Res* 2007;42:611-628.
18. Green RA, Carney RD, Pallin JD, **Ngo L**, Raymond LK, Iezzoni IL, Banaji RM. Implicit bias among physicians and its prediction of thrombolysis decisions for black and white patients. *J Gen Intern Med.* 2007 Sep;22(9):1231-8.
19. Pedrosa I, Chou MT, **Ngo L**, H Baroni R, Genega EM, Galaburda L, Dewolf WC, Rofsky NM. MR classification of renal masses with pathologic correlation. *Eur Radiol.* 2007 Sep 26.
20. Iezzoni LI, **Ngo L**, Kinkel P. Working-age persons with multiple sclerosis and access to disease-modifying medications. *Mult Scler.* 2007 Sep 24.
21. Col NF, **Ngo L**, Fortin JM, Goldberg RJ, O'Connor AM. Can computerized decision support help patients make complex treatment decisions? A randomized controlled trial of an individualized menopause decision aid. *Med Decis Making.* 2007 Sep-Oct;27(5):585-98.
22. Bloch BN, Furman-Haran E, Helbich TH, Lenkinski RE, Degani H, Kratzik C, Susani M, Haitel A, Jaromi S, **Ngo L**, Rofsky NM. Prostate cancer: accurate determination of extracapsular extension with high-spatial-resolution dynamic contrast-enhanced and T2-weighted MR imaging--initial results. *Radiology.* 2007 Oct;245(1):176-85.
23. Shapiro NI, Howell MD, Talmor D, Donnino M, **Ngo L**, Bates DW. Mortality in Emergency Department Sepsis (MEDS) score predicts 1-year mortality. *Crit Care Med.* 2007 Jan;35(1):192-8.
24. Shapiro NI, Yano K, Okada H, Fischer C, Howell M, Spokes KC, **Ngo L**, Angus DC, Aird WC. A prospective, observational study of soluble flt-1 and vascular endothelial growth factor in sepsis. *Shock.* 2007 August 16.
25. Iezzoni LI, **Ngo L**, Li D, Roetzheim RG, Drews RE, McCarthy EP. Treatment disparities for disabled medicare beneficiaries with stage I non-small cell lung cancer. *Arch Phys Med Rehabil.* 2008 Apr;89(4):595-601.
26. Iezzoni LI, **Ngo L**, Li D, Roetzheim RG, Drews RE, McCarthy EP. Early stage breast cancer treatments for younger Medicare beneficiaries with different disabilities. *Health Serv Res.* 2008 May 12.

27. Roetzheim RG, Chirikos TN, Wells KJ, McCarthy EP, **Ngo L**, Li D, Drews RE, Iezzoni LI. Managed care and cancer outcomes for Medicare beneficiaries with disabilities. *Am J Manag Care*. 2008 May;14(5):287-96.
28. Latham NK, Jette AM, **Ngo L**, Soukup J, Iezzoni LI. Did the 1997 balanced budget act reduce use of physical and occupational therapy services? *Arch Phys Med Rehabil*. 2008 May;89(5):807-14. *PMC Journal in Process*
29. Morrin MM, Pedrosa I, McKenzie CA, Farrell RJ, Bloch N, Solazzo S, Ngo L, Goldberg SN, Rofsky NM. Parallel imaging enhanced MR colonography using a phantom model. *J Magn Reson Imaging*. 2008 Sep;28(3):664-72. PubMed PMID: 18777549.
30. Berry SD, Samelson EJ, **Ngo L**, Bordes M, Broe KE, Kiel DP. Subsequent fracture in nursing home residents with a hip fracture: a competing risks approach. *J Am Geriatr Soc*. 2008 Oct;56(10):1887-92. *PMC Journal in Process*
31. Sawhney SM, Cury M, Neeman N, **Ngo L**, Lewis MJ, Chuttani R, Pleskow D, Aronson DM. Effect of institution-wide policy of colonoscopy withdrawal time ≥ 7 minutes on polyp detection. *Gastroenterology*. 2008 Dec;135(6):1892-8.
32. Pedrosa I, **Ngo L**, Wei J, Schuster M, Mahallati H, Smith M, Rofsky NM. Dynamic half-Fourier single-shot turbo spin echo for assessment of deep venous thrombosis: initial observations. *Magn Reson Imaging*. 2008 Dec 22.
33. Shapiro NI, Trzeciak S, Hollander JE, Birkhahn R, Otero R, Osborn TM, Moretti E, Nguyen HB, Gunnerson KJ, Milzman D, Gaieski DF, Goyal M, Cairns CB, **Ngo L**, Rivers EP. A prospective, multicenter derivation of a biomarker panel to assess risk of organ dysfunction, shock, and death in emergency department patients with suspected sepsis. *Crit Care Med*. 2009 Jan;37(1):96-104.
34. Sun M, **Ngo L**, Genega ME, Atkins BM, Finn EM, Rofsky MN, Pedrosa I. Dynamic contrast enhancement of renal cell carcinoma using a clinical MR protocol: correlation with pathology. *Radiology*. 2009 Mar;250(3):793-802.
35. Smulowitz PB, **Ngo L**, Epstein SK. The effect of a CT and MR preauthorization program on ED utilization. *Am J Emerg Med*. 2009 Mar;27(3):328-32.
36. Donnino MW, Cocchi MN, Howell M, Clardy P, Talmor D, Cataldo L, Chase M, Al-Marshad A, **Ngo L**, Shapiro NI. Statin therapy is associated with decreased mortality in patients with infection. *Acad Emerg Med*. 2009 Mar;16(3):230-4.
37. **Ngo L**, Latham NK, Jette AM, Soukup J, Iezzoni LI. Use of physical and occupational therapy by Medicare beneficiaries within five conditions: 1994-2001. *Am J Phys Med Rehabil*. 2009 Apr;88(4):308-21.
38. Herzig SJ, Howell MD, **Ngo L**, Marcantonio ER. Acid-suppressive medication use and the risk of hospital-acquired pneumonia. *JAMA*. 2009 May 27; 301(20):2120-8. *PMC Journal in Process*
39. **Ngo L**, Ryan LM, Mezzetti M, Bois FY, Smith TJ. Estimating Metabolic Rate for Butadiene at Steady State Using a Bayesian Physiologically-Based Pharmacokinetic Model. *Journal of Environmental and Ecological Statistics*. Oct 2009. DOI10.1007/s10651-009-0124-1.

C. Research Support.

Ongoing Research Support

R01 DK071569-01A2 (Greenman)

03/05/2007-03/28/2011

NIH/NIDDK

Metabolic MRI of Diabetic Lower Extremity Disease

Using MRI rapid acquisition with relaxation enhancement pulse sequence, this project aims to make use of the ratio $P_i:PCr$ as a potential predictor to identify patients at risk of developing foot ulcers, and to assess the degree of sensory and autonomic impairment including measurement of vibration, thermal and pain thresholds and the micro-circulation in the skin.

Role: Co-investigator

R01 CA116465-01A2 (Rofsky)

09/26/2006-07/31/2010

NIH/NCI

Characterization of Prostate Cancer with 3T MR

This is a 4-year study to investigate the potential clinical application of 3T endorectal coil MRI as a non-

invasive tool to detect extra-capsular spread of prostate cancer, detect and quantify areas within the prostate that harbor cancer, and to determine the aggressiveness of the cancer.

Role: Co-investigator

R21 CA130297-01A1 (Frangioni)

12/1/2007-11/30/2009

NIH/NCI

NIR Fluorescent SLN Mapping for Breast Cancer

Sentinel lymph node (SLN) mapping is the standard of care for the surgical staging of breast cancer. We propose a method of SLN mapping based on the use of invisible near-infrared fluorescent light that has significant advantages for both patient and surgeon.

Role: Co-investigator

ASG (Sawhney)

07/01/2008-06/30/2009

Effect of institution-wide policy of colonoscopy withdrawal time > 7 minutes on polyp detection

Using a secondary hospital database at BIDMC, we will determine if there is an association between compliance with 7-minute colonoscope withdrawal time and polyp detection ratio. We hypothesize that the higher the rate of compliance, the higher the mean level of polyp detection ratio. We also will examine the potential effect modification of patient and endoscopist characteristics on this association.

Role: Co-investigator

Completed Research Support

U62/CCCU122408-05 (Libman)

04/01/2007-09/30/2008

DHHS/CDC

VCHAP - University Technical Assistance Projects in Support of the Global AIDS Program

VCHAP is funded by a five-year cooperative agreement from the United States Department of Health and Human Services through the Centers for Disease Control and Prevention (CDC) Global AIDS Program.

VCHAP is mandated under the President's Emergency Plan Fund for AIDS Relief (PEPFAR) to provide clinical training in HIV/AIDS care and antiretroviral therapy (ARV Rx) for health care professionals in Vietnam at all sites that receive funding from the CDC or US government partner agencies.

Role: Co-investigator

R21 CA116866-01A1 (Gaston)

04/01/2006 – 03/31/2008

NIH/NCI

Prostate MRI and MRS: Correlations with Gene Expression This study examines the gene expression profiles of the choline metabolic pathways (gene expression data), MRI/MRS, histopathology, and tumor markers.

These gene expression data will be used in a statistical model to explain their association to the outcomes from histopathology data, MRI/MRS variables (Choline/Citrate, and Choline+Creatine/Citrate), and the 10 tumor marker variables.

Role: Co-Investigator

Subcontract Health Effects Institute (Tuong/Ngo)

10/01/2006 – 03/31/2008

HEI

Effect of Ambient Air Pollutants on Acute Respiratory Diseases in Children of Ho Chi Minh City, Vietnam This is a 2-year study looking at the effects of PM10, NO2, Ozone, SO2, CO on acute respiratory diseases in children under the age of five. The study will also include an analysis to examine the effect modification of poverty on the association between pollutants and respiratory health outcomes.

Role: Co-PI

RO1 CA100029 (Iezzoni)

09/01/2003 – 12/31/2007

NIH/NCI

Cancer Care and Outcomes for Disabled Medicare Patients This project will use data from SEER cancer registries merged with information from Medicare claims to examine cancer-related experiences of Medicare beneficiaries who meet administrative definitions of disability.

Role: Biostatistician

HC #0062 (Iezzoni)

07/01/2004 – 09/30/2006

National Multiple Sclerosis Society

Health, Life and Disability Insurance Issues Facing NMSS Members The purpose of this project was to survey persons with MS nationwide to explore their experiences with the availability, costs, benefits, and coverage policies of health insurance, life insurance, and short- and long-term disability insurance.

Role: Biostatistician