

Vinh Q. Nguyen

Curriculum Vitae

Contact

Department of Statistics
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Research Interests

Robust statistical methods, survival analysis, sequential testing, issues in clinical trials, prediction, applications to Alzheimer's Disease

Education

Ph.D., Statistics, 2006–2011
University of California, Irvine
Irvine, CA

Thesis: *Robust Inference and Group Sequential Methods for Discrete Hazard Models*
Advisor: Prof. Daniel L. Gillen

M.S., Statistics, 2006–2007
University of California, Irvine
Irvine, CA

B.S., Mathematics and B.A., Economics, *Magna Cum Laude*, 2003–2006
University of California, Irvine
Irvine, CA

Professional Experience

Appointments

2011 - present: Assistant Professor in Residence, Department of Statistics, University of California, Irvine

2011 - present: Director, Center for Statistical Consulting, University of California, Irvine

Collaborative Research / Committees

2011 - present: Member, Data and Statistics Core, Alzheimer's Disease Research Center, University of California, Irvine

Honors, Academic Awards and Fellowships

Achievement Rewards for College Scientists (ARCS) Fellowship, 2010-2011

National Institute on Aging - Training Grant 5 T32 AG00096-27, 2009-2011

Joint Statistical Meeting (JSM) Student Paper Winner in the Health Policy Statistics Section, 2011

WNAR (International Biometric Society), Student Paper Winner (1st in oral presentation), 2009

Phi Beta Kappa, Jun. 2006

Economics Honors Program (UC Irvine), Jun. 2006

Golden Key International Honour Society, Mar. 2005

Employment

- 4/2009–4/2011 Research Assistant
Alzheimer's Disease Research Center
University of California–Irvine
Responsibilities: *Collaborative research and consulting; data management; data analysis; manuscript writing*
Accomplishments: 2 publications in the field of Alzheimer's Disease
- 5/2010–7/2010 Biostatistics Intern
Genentech-Roche
South San Francisco, CA
Projects: *Evaluation of surrogate endpoints to reduce the time-to-market in cancer drug development*
- 6/2008–8/2008 Biostatistics Intern
Biogen Idec
San Diego, CA
Projects: *Optimal Phase II/III Strategies; Implementation of Non-binding Futility in Group Sequential Trials*
- 12/2006–5/2009 Statistical Intern
Experian
Costa Mesa, CA
Projects: *Predictive modeling for clients; prototype models for internal projects; benchmark model-building process*
- 1/2006–11/2006 Actuarial Intern
Balboa Insurance Group
Irvine, CA

Research

Peer-reviewed articles

- Halabi, W.J., Kang, C.Y., Mehraneh, J.D., Nguyen, V.Q., Carmichael, J.C., Mills, S., Pigazzi, A., and Stamos, M.J. (2013). Colonic volvulus in the united states: Trends, outcomes, and predictors of mortality. *Annals of Surgery*. (in press).
- Kang, C.Y., Halabi, W.J., Chaudhry, O.O., Nguyen, V.Q., Carmichael, J.C., Pigazzi, A., Stamos, M.J., and Mills, S. (2013). A nationwide analysis of laparoscopy in high-risk colorectal surgery patients. *Journal of Gastrointestinal Surgery*. (in press).
- Nguyen, V.Q. and Gillen, D.L. (2013). Censoring-robust estimation in observational survival studies: Assessing the relative effectiveness of vascular access type on patency among end-stage renal disease patients. *Journal of the American Statistical Association*. (in revisions).
- Halabi, W.J., Kang, C.Y., Ketana, N., Nguyen, V.Q., Stamos, M.J., Imagawa, D., and Demirjian, A. (2012). Gallstone ileus: A nationwide comparison of surgical trends and outcomes. *Annals of Surgery*. (in press).
- Kang, C.Y., Chaudhry, O., Halabi, W.J., Nguyen, V.Q., Carmichael, J.C., Mills, S., and Stamos, M.J. (2012). Risk factors for postoperative urinary tract infection and urinary retention in colorectal surgery patients. *The American Surgeon*. (in press).

- Kang, C.Y., Luo, R., Halabi, W.J., Nguyen, V.Q., Mills, S., and Stamos, M.J. (2012). Risk factors for anastomotic leakage following anterior resection for rectal cancer. *Archives of Surgery*. (in press).
- Kang, C. Y. Chaudhry, O.O., Halabi, W.J., Nguyen, V.Q., Carmichael, J.C., Stamos, M.J., and Mills, S. (2012). Outcomes of laparoscopic colorectal surgery: Latest updates. *The American Journal of Surgery*. (in press).
- Lott, I., Doran, E., Nguyen, V.Q., Tournay, A., Movsesyan, N., and Gillen, D.L. (2012). Down syndrome and dementia: Seizures and cognitive decline. *J Alzheimers Dis*.
- Nguyen, N.T., Nguyen, B., Nguyen, V.Q., Ziogas, A., Hohmann, S., and Stamos, M.J. (2012). Outcomes of bariatric surgery performed at accredited vs. nonaccredited centers. *Journal of the American College of Surgeons*.
- Nguyen, V.Q. and Gillen, D.L. (2012). Robust inference in discrete hazard models for randomized clinical trials. *Lifetime Data Analysis*.
- Lott, I., Doran, E., Nguyen, V.Q., Tournay, A., Head, E., and Gillen, D.L. (2011). Alzheimer's disease in down syndrome: a randomized, controlled trial of antioxidant supplementation. *Am J Med Genetics A*, 155:1939–1948.
- Astarita, G., Jung, K.M., Berchtold, N.C., Nguyen, V.Q., Gillen, D.L., Head, E., Cotman, C.W., and Piomelli, D. (2010). Deficient liver biosynthesis of docosahexaenoic acid correlates with cognitive impairment in Alzheimer's disease. *PLoS One*, 5.

Professional Memberships

- American Statistical Association (2006–present)
- International Biometric Society (2008–present)
- Institute of Mathematical Statistics (2008–present)

Professional Service

Statistics Journal Reviewer

- *Journal of the American Statistical Association*
- *Stat*

Professional Organizations

- Member, Regional Advisory Board, WNAR (2012–2014)
- Student Paper Competition Committee, WNAR Annual Meeting; Fort Collins, CO (2012)

Academic Service

Department Service

- Member, Second-year Data Analysis Qualifying Exam Committee, Dept. of Statistics (2012)
- Member, Second-year Computing Qualifying Exam Committee, Dept. of Statistics (2012)
- Member, First-year Theory Qualifying Exam Committee, Dept. of Statistics (2012)
- Member, First-year Data Analysis Qualifying Exam Committee, Dept. of Statistics (2012)
- Member, MS Graduate Admissions Committee, Dept. of Statistics (2012)

School Service

- Member, Computing & Network Policy Committee, Donald Bren School of Information and Computer Sciences, UCI (2011–2012)

Teaching

Course Development

University of California, Irvine

- *Statistical Consulting (STAT 275)*: Training in interdisciplinary collaborative research and practical application of statistics to real-world problems. Special emphasis on effective communication as it relates to identifying scientific objectives, formulating a statistical analysis plan, choice of statistical methods, and interpretation of results and their limitations to non-statisticians. First offered: Spring 2012.

Formal Teaching

University of California, Irvine

- Instructor, Stat 255: Survival Analysis (Fall 2012)
- Instructor, Stat 295 (275): Statistical Consulting (Spring 2012)
- Teaching Assistant, Introduction to Probability and Statistical Theory (first and third quarter of three-quarter sequence, Fall 2007 and Spring 2008)
- Teaching Assistant, Introductory Statistics for Biological Science majors (Winter 2009)
- Teaching Assistant, Introduction to Probability and Statistics for Computer Science majors (Summer 2007)
- Teaching Assistant, Introductory Statistics (Summer 2007, Fall 2008)

Math ConXept Center, Garden Grove, CA

- Instructor, Trigonometry (Summer 2009)
- Substitute Instructor, Geometry (Summer 2009)

Presentations

National and International Meetings

- JSM, "Robust Inference in Discrete Hazard Models for Randomized Clinical Trials" (Miami Beach, FL; Aug 2011)
- WNAR, "Continuous Vs. Discrete Methods for Grouped Proportional Hazards Data" (San Luis Obispo, CA; Jun 2011)
- WNAR, "Robust Inference in Semi-parametric Survival Models for Observational Studies" (Seattle, WA; Jun 2010)
- WNAR, "Robust Inference in the Discrete-Time Proportional Hazards Model" (Portland, OR; Jun. 2009)

Local Seminars

- Statistical Issues in Clinical and Basic Science Research seminar series, "Censoring-robust Inference in Semi-parametric Hazard Models" (UC Irvine; Jan. 2011)
- UCI R Seminar Series, "Parallel Computing with R using snow and snowfall" (UC Irvine; Nov. 2009)
- UCI R Seminar Series, "Sweave: Combining R and \LaTeX " (UC Irvine; May 2009)
- Oregon State University Statistics Seminar, "Censoring-robust inference in the Cox proportional hazards model" (Corvallis, OR; Nov 2012)

Grant Funding

April 2012 – March 2013 NIH/NIA AG16573 (Pilot Grant)
Title: Facial recognition and the development of Alzheimer's Disease
Role: PI
Amount: \$15,000

November 29, 2012