

Christopher M. Quale

Division of Biostatistics
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Education

Ph.D. Biostatistics, University of California, Berkeley, May 2001
M.A. Biostatistics, University of California, Berkeley, May 1996
B.A. Mathematics, University of California, Los Angeles, December 1993

Dissertation

“Nonparametric and semiparametric methods for three incomplete data structures.” Directed by Dr. Mark van der Laan

Fellowships and Awards

Lifetime member, Golden Key National Honor Society (received December 1993)
UCLA Daus Prize in Mathematics recipient, June 1994
Regent Fellowship recipient, 1994-1995

Publication and Technical Reports

Quale, C. M. and van der Laan, M. J. (1998) “Inference with bivariate truncated data.” *Biostatistics Technical Report #69*, University of California, Berkeley.

Fenster, L., Quale, C. M., Hiatt, R, et al. (1998) *Rate of caffeine metabolism and risk of spontaneous Abortion*. Am J Epidemiol, **147**, 503-510.

Fenster L, Quale, C. M., Waller, K, et al. (1999) *Caffeine consumption and menstrual function*. Am J Epidemiol, **149**, 550-557.

Quale, C. M. and van der Laan, M. J. (2000) *Inference with bivariate truncated data*. Lifetime Data Analysis, **6**, 391-408.

Quale, C. M. and Bacchetti, P. (2001) “Smooth hazard function estimation for interval censored data with time varying covariates.” *Biostatistics Technical Report #90*, University of California, Berkeley.

Quale, C. M., van der Laan, M. J. and Robins, J. M. (in preparation) *Locally efficient estimation with bivariate right censored data*.

Research Experience

University of California, Berkeley
Graduate Student Researcher

Sept. 1996 – Feb. 2001

Collaborated with Professor Mark van der Laan on research in methodology for locally efficient estimation with bivariate truncated data and methodology for bivariate truncated data. Duties included development of statistical methodology for these two data structures, implementation of these estimators in software and manuscript preparation for publication and for Ph.D. thesis.

University of California, San Francisco

April 1997 – Jan. 2000

Graduate Student Researcher

Collaborated with Professor Peter Bacchetti on the implementation of methods to model hazard functions of singly and doubly censored data as smooth functions of time dependent covariates. Duties included development of statistical methodology, implementation of methods in software and manuscript preparation for publication and for Ph.D. thesis.

California Public Health Foundation

May 1995 - Aug. 2000

Research Scientist

Collaborated with Laura Fenster, Ph.D. in the analysis and management of data from various NIH funded studies related to Reproductive Epidemiology. Duties included planning of statistical analysis strategy, data analysis and management, programming in both SAS and S-Plus, periodical status report writing, preparation of statistical section of grant proposals, writing/revising of statistical methodology sections of research papers.

Teaching Experience

University of California, Berkeley

Sept. 1995 – Jan. 1996

Graduate Student Instructor

Led discussion section for introductory statistics course for graduate students taught through the University of California School of Public Health.

Computing Experience

Proficient with UNIX (SunOS, Solaris, Linux) and Microsoft Windows (9x, NT, 2000).

Proficient in S-Plus programming and writing libraries in C to interface with S-Plus.

Data management and analysis experience with S-Plus, R, SAS, Stata and Oracle.

Familiar with C, C++, Perl, HTML, PHP and LaTeX.