

## Megan Othus

1100 Fairview Avenue North  
M3-C102  
PO Box 19024  
Seattle, WA 98109-1024

Cell: (503) 449-8943  
Office: (206) 667-5749  
mothus@fhcrc.org

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EDUCATION	<b>Harvard University</b> , Cambridge, MA Ph.D., Biostatistics, June 2009 Dissertation: “Survival Analysis with Complex Censoring Mechanisms with Application in Population-based Studies and Clinical Trials” Advisor: Yi Li A.M., Biostatistics, June 2006
	<b>Reed College</b> , Portland, OR B.A., Mathematics, May 2004 Thesis: “An Analysis of the Relative Risk of Cancer Mortality Among Atomic Bomb Survivors” Advisor: Albyn Jones
PROFESSIONAL POSITIONS	Assistant Member, Division of Public Health Sciences, Fred Hutchinson Cancer Research Center, Seattle, WA 08/2009 – present Affiliate Assistant Professor, Department of Biostatistics, University of Washington, Seattle, WA 02/2011 – present
HONORS AND AWARDS	Dr. Charles A Coltman, Jr. Fellowship 2011 <i>Southwest Oncology Group</i> Statistics in Epidemiology Student Travel Award 2009 <i>American Statistical Association</i> Byar Young Investigator Travel Award 2008 <i>American Statistical Association</i> Health Policy Statistics Student Paper Award 2008 <i>American Statistical Association</i> Distinguished Student Paper Award 2008 <i>International Biometric Society Eastern North American Region</i> Student Paper Award 2008 <i>International Chinese Statistics Association</i> Contributed Talk Award 2008 <i>Frontiers in Applied and Computational Mathematics</i> Certificate of Distinction in Teaching 2008 <i>Derek Bok Center for Teaching and Learning at Harvard University</i> Award for Best Teaching Assistant 2007

<i>Harvard School of Public Health</i>	
Certificate of Distinction in Teaching	2006–2007
<i>Harvard University Department of Biostatistics</i>	
Mu Sigma Rho	2007
Phi Beta Kappa	2004

RESEARCH INTERESTS	Survival analysis, cure modeling, clinical trial design
PROFESSIONAL MEMBERSHIPS	American Statistical Association, Eastern North American Region, International Biometric Society, Western North American Region, International Biometric Society
REFEREE	BioMed Central Cancer, Biometrics, Cancer, Communications in Statistics - Simulation and Computation, Computational Statistics and Data Analysis, European Series in Applied and Industrial Mathematics: Probability and Statistics, Haematologica, Journal American Statistical Association, Journal of Applied Statistics, Journal of Multivariate Analysis, Journal of the Royal Statistical Society – Series B and Series C, Lifetime Data Analysis, Statistics in Biosciences
INVITED TALKS	<ul style="list-style-type: none"> <li>- Department of Biostatistics, University of Washington, Seattle, WA, March 2011</li> <li>- Department of Mathematics, Reed College, Portland, OR, December 2010</li> <li>- Department of Mathematical and Statistical Sciences, University of Colorado, Denver, CO, February, 2009</li> <li>- Department of Biostatistics and Informatics, University of Colorado, Denver, CO, February 2009</li> <li>- Department of Biostatistics, University of Washington, Seattle, WA, February 2009</li> <li>- Program in Biostatistics and Biomathematics, Fred Hutchinson Cancer Research Center, Seattle, WA, February 2009</li> <li>- Department of Biostatistics and Epidemiology, University of Pennsylvania, Philadelphia, PA, February 2009</li> <li>- Center for Statistical Sciences, Department of Community Health, Brown University, Providence, RI, January 2009</li> <li>- Department of Biostatistics, UCLA, Los Angeles, CA, January 2009</li> <li>- Clinical Trial Fellows Seminar Series, Beth Israel Deaconess Medical Center, Boston, MA, April 2008</li> </ul>

- Clinical Trial Fellows Seminar Series, Beth Israel Deaconess Medical Center, Boston, MA, March 2008
- Cancer Working Group Seminar Series, Harvard, Biostatistics Department, Boston, MA, February 2008

- CONFERENCE PRESENTATIONS
- ENAR, Miami, FL, March 2011
  - International Conference on Statistics and Society, Beijing, China, July 2010
  - International Conference on Statistical Analysis of Complex Data, Kunming, China, July 2010
  - Joint Statistical Meetings, Washington DC, August 2009
  - New England Statistics Symposium, Storrs CT, April 2009
  - Joint Statistical Meetings, Denver, CO, August 2008
  - International Chinese Statistical Association Applied Statistics Symposium, Piscataway, NJ, June 2008
  - Frontiers of Applied and Computational Mathematics, Newark, NJ, May 2008
  - ENAR, Arlington, VA, March 2008

- PROFESSIONAL ACTIVITIES
- Invited Session Organizer and Chair, 2009 Conference on Financial Statistics and Financial Econometrics – Nonparametric Modeling and Its Application, Chengu, China, *Censored Data Analysis with High Dimensional Covariates*
  - Invited Session Organizer and Chair, 2009 International Biometric Society - ENAR Meetings, San Antonio, TX, *Prediction and Cure Modeling for Modern Biomedical Data*

- TEACHING EXPERIENCE
- Derek Bok Teaching Fellow**, Harvard Department of Biostatistics      2008–2009
- Led and critiqued practice teaching sessions
- Course Instructor**, Harvard Department of Biostatistics
- Summer Course in Statistical Methods*      Summer 2007, 2008
- Designed and taught course for incoming biostatistics PhD students; covered fundamentals of statistical methods and provided an introduction to programming in R and SAS.
- Head Teaching Assistant**, Harvard Department of Biostatistics
- Introductory course for biomedical and social science MPH students*
- Biostat 202: Principles of Biostatistics      Summer 2007, 2008
- Biostat 200: Principles of Biostatistics      Fall 2006

**Teaching Assistant**, Harvard Department of Biostatistics*Core course for first year PhD biostatistics students*

Biostat 230: Probability 1

Fall 2007, 2008

*Introductory course for biomedical and social science MPH students*

Biostat 202: Principles of Biostatistics I

Summer 2006

Biostat 203: Principles of Biostatistics II

Summer 2006

Biostat 200: Principles of Biostatistics

Fall 2004, 2005

BOOK  
CHAPTERS**Published or In Press**

1. **Othus M**, Crowley J, Barlogie B. Cure-rate Survival Models in Clinical Trials. In: Crowley J, Hoering A (eds): Handbook of Statistics in Clinical Oncology (edition 3). In press

## PAPERS

**Published or In Press**

1. Shelton R, Snaveley A, De Jesus M, **Othus M**, Allen J. (in press). HPV Vaccine Decision-Making and Acceptance: Does Religion Play a Role? *Journal of Religion and Health*.
2. **Othus M**, Li Y, Tiwari R (in press). Change-point Cure Models with Application to Estimating the Change-point Effect of Age of Diagnosis Among Prostate Cancer Patients. *Journal of Applied Statistics*.
3. Medeiros B, **Othus M**, Fang M, Appelbaum F, Estey E (in press). Impact of Residual Normal Metaphases in Core Binding Factor Acute Myeloid Leukemia. *Cancer*.
4. Walter R, **Othus M**, Borthakur G, Ravandi F, Cortes J, Pierce S, Appelbaum F, Kantarjian H, Estey E. (in press). Prediction of Early Death Following Induction Therapy for Newly Diagnosed Acute Leukemia with Pretreatment Risk Scores: A Novel Paradigm for Treatment Assignment. *Journal of Clinical Oncology*.
5. Fang M, Storer B, Estey E, **Othus M**, Zhang L, Sandmaier B, Appelbaum F. (in press). Outcome of Acute Myeloid Leukemia Patients with Monosomal Karyotype who undergo Hematopoietic Cell Transplantation. *Blood*.
6. Medeiros BC, **Othus M**, Appelbaum F. (2011). Cytarabine Dose for Acute Myeloid Leukemia. *New England Journal of Medicine*, 364 (22), 2167–2168. PMID: 21631340
7. Alexander B, **Othus M**, Calgar H, Allen A. (2011). Tumor Volume is a Prognostic Factor in Non-small-cell Lung Cancer Treated with Chemotherapy. *International Journal of Radiation Oncology, Biology, Physics*, 79 (5), 1381–1387. PMID: 20605346

8. Xie B, **Othus M**, Medeiros B, Fang M, Appelbaum F, Estey E. (2011). Influence of Residual Normal Metaphases in Acute Myeloid Leukemia Patients with Monosomal Karyotype. *Haematologica*, 96 (4), 631–632. PMCID: PMC3069244
9. **Othus M**, Moon J, Margolin K. (2011). Melanoma’s Deadly March to the Brain: By What Route, and Can it be Stopped? *Cancer*, 117 (8), 1560–1563. PMID: 21472703
10. Allen J, **Othus M**, Hart A, Mohllajee A, Li Y, Lathan C, Bowen D. (2011). Do Men Make Informed Decisions about Prostate Cancer Screening? Baseline results from the “Take the Wheel” Trial. *Medical Decision Making*, 31, 1, 108–120. PMID: 20716619
11. **Othus M** and Li Y. (2010). A Gaussian Copula Model for Multivariate Survival Data. *Statistics in Biosciences*, 2 (2), 154–179.
12. Allen J, **Othus M**, Hart A, Li Y, Berry D, Bowen D. (2010). A Randomized Trial of a Computer-Tailored Decision Aid to Improve Prostate Cancer Screening Decisions: Results from the Take the Wheel Trial. *Cancer Epidemiology, Biomarkers & Prevention*, 19 (9), 2172–2186. PMID: 20716619
13. Allen J, **Othus M**, Shelton R, Li Y, Norman N, Tom L, del Carmen M. (2010) Parental Decision-Making about the HPV Vaccine. *Cancer Epidemiology, Biomarkers & Prevention*, 19 (9), 2187–2198. PMID: 20826829
14. Caglar H, **Othus M**, Allen A. (2010). Esophagus In-Field: A New Predictor for Esophagitis. *Radiotherapy and Oncology*, 97 (1), 48–53. PMID: 20832884
15. Medeiros B, **Othus M**, Fang M, Roulston D, Appelbaum F. (2010). Prognostic Impact of Monosomal Karyotype in Young Adult and Elderly Acute Lymphoblastic Leukemia: The Southwest Oncology Group Experience. *Blood*, 116 (13), 2224–2228. PMID: 20562328
16. Litzow M, **Othus M**, Cripe L, Gore S, Lee S, Bennet J, Paietta E, Dewald G, Rowe J, Tallman M. (2010). Failure of Three Novel Regimens to Improve Outcome for Patients with Relapsed or Refractory Acute Myeloid Leukaemia: A Report from the Eastern Cooperative Oncology Group. *British Journal of Haematology*, 148 (2), 217–225. PMCID: PMC2809127
17. De Jesus M, Parast L, Shelton R, Kokkinogenis K, **Othus M**, Li Y, Allen J. (2009) Actual Versus Preferred Sources of Human Papillomavirus (HPV) Information Among Black, White, and Hispanic Parents: Implications for Primary Care Providers and Parent Education. *Archives of Pediatrics & Adolescent Medicine*, 163 (11), 1066–1067. PMCID: PMC2914618
18. **Othus M**, Li Y, and Tiwari R. (2009). A Class of Semiparametric Mixture Cure Survival Models with Dependent Censoring. *Journal of the American Statistical Association*, 104 (487), 1241–1250. PMCID: PMC2920213
19. Allen J, Mohllajee A, Shelton R, **Othus M**, Fontenot H, Hanna R. (2009). Stage of Adoption of the Human Papillomavirus Vaccine among College Women. *Preventative Medicine*, 48, 420–425. PMID: 19133288

20. Caglar H, Baldini E, **Othus M**, Rabin M, Bueno R, Sugarbaker D, Mentzer S, Jänne P, Johnson B, Allen A. (2009). Outcomes of Patients with Stage III Nonsmall Cell Lung Cancer Treated With Chemotherapy and Radiation With and Without Surgery. *Cancer*, 115, 4156–4166. PMID: 19551884
21. Caglar H, Tishler R, **Othus M**, Burke E, Li Y, Goguen L, Wirth L, Haddad R, Norris C, Annino D, Posner M, Allen A. (2008). Dose to Larynx Predicts for Swallowing Complications After Intensity-Modulated Radiotherapy. *International Journal of Radiation Oncology, Biology, Physics*, 72, 1110–1118. PMID: 18468812
22. Rusby J, Brachtel E, **Othus M**, Michaelson J, Koerner F, Smith B. (2008). Selection of Patients for Nipple-sparing Mastectomy: Development and Validation of a Predictive Model of Occult Nipple Involvement. *British Journal of Surgery*, 95 (11), 1356–1361. PMID: 18844271
23. Wirth L, Krane J, Li Y, **Othus M**, Moran A, Dorfman D, Norris C, Posner M, Bertanolly M. (2008). A Pilot Surrogate Endpoint Biomarker Study of Celecoxib in Oral Premalignant Lesions. *Cancer Prevention Research*, 1, 339–348. PMID: 19138978