Curriculum Vitae Jared C Foster, PhD

Personal Information Email: jared.foster@nih.gov Phone: (734) 660-1167 Address: 9609 Medical Center Dr, Rm 5W638, Rockville, MD 20892 **Present Position** Mathematical Statistician - Biostatistics Branch, Biometric Research Program, 01/2017 - Present Division of Cancer Research and Diagnosis, National Cancer Institute, NIH Education University of Wisconsin - Parkside - BS, Applied Mathematics 2006 University of California - Los Angeles - MS, Biostatistics 2008 University of Michigan - Ann Arbor - PhD, Biostatistics, Advisors: Jeremy M.G. 2013 Taylor and Bin Nan; Dissertation Title: Subgroup Identification and Variable Selection from Randomized Clinical Trial Data Honors and Awards Rackham Conference Travel Grant (UM) 2011-2013 **ENAR Distinguished Student Paper Award** 2013 **Previous Professional Positions and Major Appointments** Graduate Student Research Assistant - Semel Institute for 04/2008 - 07/2008 Neuroscience and Human Behavior, University of California, Los Angeles, Los Angeles, California Research Specialist - Department of Industrial Engineering, 06/2008 - 08/2008 University of Wisconsin - Milwaukee, Milwaukee, Wisconsin Trainee - Biostatistics Department, University of Michigan - Ann 09/2008 - 08/2011 Arbor, Ann Arbor, Michigan NIH Biostatistics Training in Cancer Research Grant Graduate Student Research Assistant - Biostatistics Department, 09/2011 - 08/2013 University of Michigan - Ann Arbor, Ann Arbor, Michigan **Consultant** - Department of Biostatistics, Indiana University, 08/2012 - 08/2013 Indianapolis, Indiana "Identification of subgroups with enhanced behavioral intervention effects" (PI - Dr. Patrick Monahan) Research Associate - Mayo Clinic, Section of Center of Cancer 07/2015 - 01/2017 Center Statistics, Rochester, Minnesota Assistant Professor of Biostatistics - Mayo Clinic College of 07/2016 - 01/2017 Medicine Professional Memberships, Societies, and Services **Professional Memberships and Services**

American Statistical Association

Member

2018 - Present

Journal Other Responsibilities

Anonymous Referee: American Journal of Preventive Medicine; Biometrics; Biostatistics; Clinical Trials; Nature Medicine; Journal of the American Statistical Association; Journal of the National Cancer Institute; Journal of the Royal Statistical Society: Series A; Paediatric and Perinatal Epidemiology; Scandinavian Journal of Statistics; Scientific Reports; Statistics in Biosciences; Statistics in Medicine

Institutional Committees

	Mayo Clinic Scientific Review Committee B (Solid Tumor)	
	Statistical Reviewer	2016
	Mayo Clinic Scientific Review Committee A (Hematology)	
	Statistical Reviewer	2016
	NCI Genitourinary Cancer Steering Committee	
	Member	2017 - Present
	NCI Breast Cancer Steering Committee	
	Member	2017 - Present
	ANCHOR Data and Safety Monitoring Board	
	Non-Voting Member	2017 - Present
	AMC Data and safety Monitoring Board	
	Non-Voting Member	2017 - Present
	NRG Oncology Data Monitoring Committee (Panel B)	
	Non-Voting Member	2017 - Present
Pres	entations Contributed	
	Finding and Validating Subgroups in Clinical Trials (Poster) ENAR	03/2010
	New Orleans, Louisiana	
	Finding and Validating Subgroups in Clinical Trials (Poster)	04/2010
	Michigan Student Symposium for Interdisciplinary Statistical Sciences	
	Ann Arbor, Michigan	
	Variable Selection in Monotone Single-Index Models via the Adaptive Lasso	03/2013
	ENAR	
	Orlando, Florida	
	Subgroup Identification in Randomized Clinical Trial Data Using Random Forest and Regression Trees	08/2013
	JSM (Topic Contributed)	
	Montreal, Canada	
	Simple Approximations to Optimal Treatment Regimes in Randomized Clinical Trial Data	03/2014
	ENAR Baltimera Maruland	
	Baltimore, Maryland	

Identifying Subgroups of Enhanced Predictive Accuracy from Longitudinal Biomarker Data Using Tree-Based Approaches: Applications to Monitoring Fetal Growth JSM Boston, Massachusetts	08/2014
Invited	
Identifying Subgroups in Clinical Trials Via Random Forests and Regression Trees Conference on Multiple Comparison Procedures Washington, District of Columbia	09/2011
Subgroup Identification Using Random Forests and Regression Trees Conference on Statistical Learning and Data Mining Ann Arbor, Michigan	06/2012
Statistical Methods for Personalized Medicine Rush Alzheimer's Disease Center, Rush University Chicago, Illinois	03/2013
Subgroup Identification Using Randomized Clinical Trial Data Department of Biostatistics, Brown University Providence, Rhode Island	03/2013
Subgroup Identification Using Randomized Clinical Trial Data Biostatistics Division, New York State Psychiatric Institute (NYSPI) (Columbia University) New York, New York	04/2013
Subgroup Identification Using Virtual Twins Extensions Novartis Biostatistics Workshop East Hanover, New Jersey	06/2013
Individualized Prediction and Subgroup Identification from Longitudinal Biomarker Data: Applications to Fetal Growth Department of Biostatistics and Computational Biology, University of Rochester Rochester, New York	02/2015
Individualized Prediction and Subgroup Identification from Longitudinal Biomarker Data: Applications to Fetal Growth Section of Cancer Center Statistics Rochester, Minnesota	03/2015
Individualized Prediction and Subgroup Identification from Longitudinal Biomarker Data: Applications to Fetal Growth	04/2015

Department of Epidemiology and Biostatistics, Memorial Sloan Kettering Cancer Center	
New York, New York	
Identifying Subgroups of Enhanced Predictive Accuracy from Longitudinal Biomarker Data Using Tree-Based Approaches: Applications to Monitoring Fetal Growth	06/2015
Joint 24th ICSA Applied Statistics Symposium and 13th Graybill Conference	
Fort Collins, Colorado	
Dan Sargent: A Wonderful Mentor and a Great Man	03/2017
ENAR	
Washington, DC	
Individualized prediction and subgroup identification from longitudinal biomarker data: applications to fetal growth	12/2017
SLAM Working Group Seminar, Johns Hopkins University	
Baltimore, MD	
Data-driven methods for subgroup identification and personalized medicine (two-part short course)	03/2018
SLAM Working Group Seminar, Johns Hopkins University	
Baltimore, MD	

Research Interests

Subgroup Identification, Personalized Medicine, Personalized Prediction, Surrogate Endpoint Evaluation, Clinical Trials

Peer-Reviewed Articles/Publications

- Zhang J, Lee J, Urba S, Foster J, Worden F. A phase II trial evaluating weekly docetaxel and capecitabine in patients with metastatic or advanced, locally recurrent head and neck cancers. Cancer Invest. 2010 Nov; 28(9):910-6. PMID: 20590443 DOI: 10.3109/07357907.2010.483502
- Foster JC, Taylor JM, Ruberg SJ. Subgroup identification from randomized clinical trial data. Stat Med. 2011 Oct 30; 30(24):2867-80. Epub 2011 Aug 04. PMID: 21815180 PMCID: 3880775 DOI: 10.1002/sim.4322
- 3. Taylor JMG, Cheng W, **Foster JC**. Reader Reaction to "A Robust Method for Estimating Optimal Treatment Regimes" by Zhang et al. Biometrics. 2012. DOI: 10.1111/biom.12228
- Waterman JM, Nadeem E, Paczkowski E, Foster JC, Lavner JA, Belin T, Miranda J. Pre-placement risk and longitudinal cognitive development for children adopted from foster care. Child Welfare. 2013; 92(4):9-30. PMID: 24851473
- Foster JC, Taylor JM, Nan B. Variable selection in monotone single-index models via the adaptive LASSO. Stat Med. 2013 Sep 30; 32(22):3944-54. Epub 2013 May 06. PMID: 23650074 PMCID: 3773259 DOI: 10.1002/sim.5834

- Mason H, DeRubeis MB, Foster JC, Taylor JM, Worden FP. Outcomes evaluation of a weekly nurse practitioner-managed symptom management clinic for patients with head and neck cancer treated with chemoradiotherapy. Oncol Nurs Forum. 2013 Nov; 40(6):581-6. PMID: 24007925 DOI: 10.1188/13.ONF.40-06AP
- Foster JC, Nan B, Shen L, Kaciroti N, Taylor JMG. Permutation Testing for Treatment-Covariate Interactions and Subgroup Identification. Statistics in Bioscience. 2015. DOI: 10.1007/s12561-015-9125-9
- Foster JC, Taylor JM, Kaciroti N, Nan B. Simple subgroup approximations to optimal treatment regimes from randomized clinical trial data. Biostatistics. 2015 Apr; 16(2):368-82. Epub 2014 Nov 13. PMID: 25398774 DOI: 10.1093/biostatistics/kxu049
- 9. Nadeem E, Waterman J, **Foster J**, Paczkowski E, Belin TR, Miranda J. Long-term effects of preplacement risk factors on childrens psychological symptoms and parenting among children adopted from foster care. Journal of Emotional and Behavioral Disorders (in press). 2016
- 10. **Foster JC**, Liu D, Albert PS, Liu A. Identifying Subgroups of Enhanced Predictive Accuracy from Longitudinal Biomarker Data Using Tree-Based Approaches: Applications to Fetal Growth. Journal of the Royal Statistical Society: Series A (Statistics in Society).2016; DOI: 10.1111/rssa.12182
- 11. Freedman RA, **Foster JC**, Seisler DK, Lafky JM, Muss HB, Cohen HJ, Mandelblatt J, Winer EP, Hudis CA, Partridge AH, Carey LA, Cirrincione C, Moreno-Aspitia A, Kimmick G, Jatoi A, Hurria A. Accrual of Older Breast Cancer Patients to Alliance Systemic Therapy Trials over Time: Protocol A151527. Journal of Clinical Oncology (Accepted). 2016
- 12. Freedman RA, Seisler DK, **Foster JC**, Lafky JM, Kimmick G, Hurria A, Cohen HJ, Winer EP, Hudis CA, Muss, HB. Risk of Acute Myeloid Leukemia and Myelodysplastic Syndrome Among Older Women Receiving Anthracycline-Based Adjuvant Chemotherapy for Breast Cancer on Modern Cooperative Group Trials (Alliance A151511). Breast Cancer Research and Treatment (Accepted). 2016
- Himelstein A, Foster JC, Khatcheressian JL, Roberts JD, Seisler DK, Novotny PJ, Qin R, Go RS, Grubbs SS, O'Connor T, Velasco MR, Weckstein D, O'Mara A, Loprinzi CL, Shapiro CL. Effect of longer interval dosing vs. standard dosing of zoledronic acid on skeletal events among patients with bone metastasis: a randomized clinical trial. Journal of the American Medical Association 2017, 317(1):48–58. doi:10.1001/jama.2016.19425
- 14. **Foster JC**, Le-Rademacher JG, Feliciano JL, Gajra A, Seisler DK, Dematteo R, Lafky JM, Hurria A, Muss HB, Cohen HJ, Jatoi A, Comparative Nocebo Effects in Older Patients Enrolled in Cancer Therapeutic Trials: Observations from a 446-Patient Cohort. Cancer 2017, 123: 4193–4198. doi:10.1002/cncr.30867
- 15. Shapiro CL, Moriarty JP, Dusetzina S, Himelstein AL, **Foster JC**, Grubbs SS, Novotny PJ, and Borah BJ, Cost-Effectiveness Analysis of Monthly Zoledronic Acid, Zoledronic Acid Every 3 Months, and Monthly Denosumab in Women With Breast Cancer and Skeletal Metastases: CALGB 70604 (Alliance), Journal of Clinical Oncology 2017, 35:35, 3949–3955
- 16. Tallarico M, **Foster JC**, Seisler D, Lafky JM, Hurria A, Jatoi A, Cohen HJ, Muss HB, Bartlett N, Cheson BD, Jung SH, Leonard JP, Byrd JC, and Nabhan C, Frequency and Impact of Grade 3/4 Toxicities of Biologics on Outcomes of Elderly Patients with Chronic Lymphocytic Leukemia and Non-Hodgkin Lymphoma (Alliance A151611). Journal of Geriatric Oncology 2018 9(4):321-328, 2018
- 17. **Foster JC**, Le-Rademacher J, Mandrekar SJ: Design Considerations for Phase II Oncology Clinical Trials, in Roychoudhury S, Lahiri S (ed): Statistical Approaches in Oncology Clinical Development. Boca Raton, FL, CRC Press, 2018, pp 97-114 (book chapter)

- 18. **Foster JC**, Dong R, Kennedy, EH, Taylor JMG, Adjei A, Mandrekar SJ, Shi Q, Surrogate endpoint evaluation in the presence of treatment-by-covariate interactions (under revision)
- 19. **Foster JC**, Freidlin B, Kunos CA, Korn EL: Single-Arm Phase II Trials of Combination Therapies: The CTEP Experience 2008-2017 (submitted)