

CURRICULUM VITAE

Antje Hoering

Cancer Research And Biostatistics (CRAB) Seattle, WA 98109-3050
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Education:

<i>Foster School of Business, University of Washington, Seattle, WA</i>	
Executive Development Program	2017
<i>University of Washington, Seattle, WA</i>	
Postdoctoral Fellow Biostatistics	1996-1999
<i>Max-Planck-Institute for Nuclear Physics, Heidelberg, Germany</i>	
Ph.D. Physics, cum laude	1991
<i>Oregon State University, Corvallis, Oregon</i>	
M.S. Physics	1988
<i>University of Tübingen, Tübingen, Germany</i>	
B.S. Physics	1985

Professional Positions:

Since 01/15: Chief Executive Officer, President, Cancer Research And Biostatistics (CRAB), Seattle, Washington.

Since 3/05: Affiliate Investigator, Division of Public Health Sciences, Fred Hutchinson Cancer Research Center, Seattle, Washington.

Since 2/06: Affiliate Assistant Professor, Department of Biostatistics, University of Washington, Seattle, Washington.

1/13 – 12/14: Chief Scientific Officer, Vice President, Cancer Research And Biostatistics (CRAB), Seattle, Washington.

11/04 – 12/12 Senior Biostatistician, Cancer Research And Biostatistics (CRAB), Seattle, Washington.

7/04 – 10/04: Assistant Professor, Mayo Medical School, Mayo Clinic, Rochester, Minnesota.

7/03 – 10/04: Senior Research Associate, Cancer Center Statistics, Section of Biostatistics, Mayo Clinic, Rochester, Minnesota.

1/02 – 6/03: Research Scientist II, Insightful Corp., Seattle, Washington.

5/99 – 12/01: Research Scientist I, Insightful Corp., Seattle, Washington.

6/96 – 4/99: Senior Fellow/Postdoctoral Trainee, Department of Biostatistics, University of Washington, Fred Hutchinson Cancer Research Center, Seattle, Washington.

11/95 – 5/96: Research Associate, European Center for Theoretical Studies in Nuclear Physics and Related Areas, ECT*, Trento, Italy.

- 4/93 – 10/95: Research Assistant Professor, Department of Physics, University of Washington, Seattle, Washington.
- 11/91 – 3/93: Postdoctoral Research Associate, Department of Physics, University of Washington, Seattle, Washington.
- 1/89 – 10/91: Research Assistant, Max Planck Institute for Nuclear Physics, Heidelberg, Germany

Honors, Awards, Scholarships:

- 9/96 – 4/99: **NRSA Postdoctoral Fellow** “Statistical Methods for Analyses of HIV Vaccine Trials”, NIH/NIAID, **Sponsor:** Steven G. Self, **Principal Investigator:** Antje Hoering. 1 F32 A109651 (\$101,600).
- 6/96 – 8/96: **NRSA Postdoctoral Fellow** “Clinical Research on AIDS Training Grant”, NIH/NIAID, Principal Investigator: Thomas R. Fleming. 1 T32 A107450.
- 1/89 – 10/91: **Predoctoral Fellow**, Max Planck Society, Germany.
- 7/86 – 7/87: **Fellow**, International Exchange Program, University of Tübingen.

Professional Activities:

- Lead Statistician, SWOG Myeloma Committee.
- Lead Statistician, SWOG Early Therapeutics Subcommittee, 5/2008 – 1/2014.
- Director, Biostatistics Core, Sarcoma SPORE.
- Coordinating Statistician, Myeloma Institute for Research and Therapy, University of Arkansas, statistics core of a P01 grant.
- Lead Statistician, International Myeloma Foundation.
- Lead Statistician and Project Chair for a phase III registration trial in AML.
- Lead Statistician, Stand Up To Cancer, Pancreatic Dream Team, 7/2009 – 12/2013.
- Coordinating Statistician, Pancreatic Cancer Research Team, 10/2005 – 12/2013.
- Consultant on a variety of industry sponsored oncology clinical trials (phase I – phase III), including Celator, Novartis, Jennerex, Oncotherapeutics, Venti Rx, ParinGenix, Immunomedics, Marsala Biotech, IRAD Oncology.
- Biostatistics representative for the SWOG Myeloma Committee to Type B meeting with the FDA (2009).
- Biostatistics representative for Celator to Type B meeting with the FDA (2011).
- Biostatistics representative for Celator to pre-NDA meeting with the FDA (2016).

Committee Membership

- Statistical Representative to the NCCTG Gender and Ethnic Diversity Committee, 7/03-10/04.
- Member, NCI Myeloma Steering Committee, since 2010.
- Member, DSMB committee, University of Utah School of Medicine, since 2010.

Editorial

Associate Editor, Statistics in Biopharmaceutical Research, since 01/2013

Statistical Reviewer, Clinical Cancer Research.

Reviewer, Clinical Trials.

Reviewer, Leukemia.

Reviewer, Statistics in Medicine.

Referee for Physical Review C, Physical Review D, and Nuclear Physics A (1992-1999).

Societies

Since 1996: American Statistical Association

Since 2006: International Biometrics Society

Since 2011: International Myeloma Society

Other Professional Activities

Reviewer, Baylor Cancer Center research grant, 2011.

Reviewer, European Commission for Medical Research, Brussels, Belgium, since 2010.

Reviewer, of SPORC grants, National Cancer Institute, 2009, 2014.

IBS (International Biometrics Society) Council representative, since 2014.

Secretary, WNAR (Western North American Region of the International Biometrics Society),
2006 - 2011.

Organizer and Chair of Invited Session at International Biometrics Conference 2014,
“Biomarkers in Oncology Clinical Trials.”

Member of the International Program Committee of the International Biometric Conference, July
2018

Bibliography:**Publications in referred journals:**

1. Herman M, **Höring A**, Reffo G.⁺ Gamma emission in precompound reactions. II. Numerical application. Phys Rev C Nucl Phys. 1992 Dec;46(6):2493-2500. PMID: 9968379.
2. Herman M, **Höring A**, Reffo G.⁺ Gamma emission in precompound reactions. II. Numerical application. Phys Rev C Nucl Phys. 1992 Dec;46(6):2493-2500. PMID: 9968379.
3. W.C. Haxton, **A. Höring**.⁺ Time-reversal-noninvariant, parity-conserving nuclear interactions, Nuclear Physics A. 1993 Jul 12;560(1):469-482, ISSN 0375-9474.
4. Haxton WC, **Höring A**, Musolf MJ.⁺ Constraints on T-odd and P-even hadronic interactions from nucleon, nuclear, and atomic electric dipole moments. Phys Rev D Part Fields. 1994 Sep 1;50(5):3422-3432. PMID: 10017977.

⁺ Authors appear alphabetically; standard in Physics

5. Henyey, F. S., Hoering A.⁺ Energetics of borelike internal waves, *J. Geophys. Res.*, 1997 Feb 15;102(C2), 3323–3330.
6. Seth A, Markee J, **Hoering A**, Sevin A, Sabath DE, Schmitz JE, Kuroda MJ, Lifton MA, Hirsch MS, Collier AC, Letvin NL, McElrath MJ. Alterations in T cell phenotype and human immunodeficiency virus type 1-specific cytotoxicity after potent antiretroviral therapy. *J Infect Dis.* 2001 Mar 1;183(5):722-9. PMID: 11181148.
7. Hudgens MG*, **Hoering A***, Self SG. On the analysis of viral load endpoints in HIV vaccine trials. *Stat Med.* 2003 Jul 30;22(14):2281-98. PMID: 12854093.
8. Eckel-Passow JE, **Hoering A**, Therneau TM, Ghobrial I. Experimental design and analysis of antibody microarrays: applying methods from cDNA arrays. *Cancer Res.* 2005 Apr 15;65(8):2985-9. Review. PMID: 15833819.
9. McClure RF, Remstein ED, Macon WR, Dewald GW, Habermann TM, **Hoering A**, Kurtin PJ. Adult B-cell lymphomas with burkitt-like morphology are phenotypically and genotypically heterogeneous with aggressive clinical behavior. *Am J Surg Pathol.* 2005 Dec;29(12):1652-60. PMID: 16327438.
10. Litzow MR, Dietz AB, Bulur PA, Butler GW, Gastineau DA, **Hoering A**, Fink SR, Letendre L, Padley DJ, Paternoster SF, Tefferi A, Vuk-Pavlović S. Testing the safety of clinical-grade mature autologous myeloid DC in a phase I clinical immunotherapy trial of CML. *Cytotherapy.* 2006;8(3):290-8. PMID: 16793737.
11. Moreno-Aspitia A, Colon-Otero G, **Hoering A**, Tefferi A, Niedringhaus RD, Vukov A, Li CY, Menke DM, Geyer SM, Alberts SR; North Central Cancer Treatment Group. Thalidomide therapy in adult patients with myelodysplastic syndrome. A North Central Cancer Treatment Group phase II trial. *Cancer.* 2006 Aug 15;107(4):767-72. PMID: 16826578.
12. Barlogie B, Tricot GJ, van Rhee F, Angtuaco E, Walker R, Epstein J, Shaughnessy JD, Jagannath S, Bolejack V, Gurley J, **Hoering A**, Vesole D, Desikan R, Siegel D, Mehta J, Singhal S, Munshi NC, Dhodapkar M, Jenkins B, Attal M, Harousseau JL, Crowley J. Long-term outcome results of the first tandem autotransplant trial for multiple myeloma. *Br J Haematol.* 2006 Oct;135(2):158-64. PMID: 16939489.
13. Walker R, Barlogie B, Haessler J, Tricot G, Anaissie E, Shaughnessy JD Jr, Epstein J, van Hemert R, Erdem E, **Hoering A**, Crowley J, Ferris E, Hollmig K, van Rhee F, Zangari M, Pineda-Roman M, Mohiuddin A, Yacoby S, Sawyer J, Angtuaco EJ. Magnetic resonance imaging in multiple myeloma: diagnostic and clinical implications. *J Clin Oncol.* 2007 Mar 20;25(9):1121-8. PMID: 17296972.
14. **Hoering A**, Crowley J. Clinical trial designs for multiple myeloma. *Clin Adv Hematol Oncol.* 2007 Apr;5(4):309-16. Review. PMID: 17607290.
15. Haessler J, Shaughnessy JD Jr, Zhan F, Crowley J, Epstein J, van Rhee F, Anaissie E, Pineda-Roman M, Zangari M, Hollmig K, Mohiuddin A, Alsayed Y, **Hoering A**, Tricot G, Barlogie B. Benefit of complete response in multiple myeloma limited to high-risk subgroup identified by gene expression profiling. *Clin Cancer Res.* 2007 Dec 1;13(23):7073-9. PMID: 18056185.

* Authors contributed equally

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17. **Hoering A**, LeBlanc M, Crowley JJ. Randomized phase III clinical trial designs for targeted agents. *Clin Cancer Res*. 2008 Jul 15;14(14):4358-67. PMID: 18628448; PMCID: PMC2569946.
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19. Barlogie B, van Rhee F, Shaughnessy JD Jr, Epstein J, Yaccoby S, Pineda-Roman M, Hollmig K, Alsayed Y, **Hoering A**, Szymonifka J, Anaissie E, Petty N, Kumar NS, Srivastava G, Jenkins B, Crowley J, Zeldis JB. Seven-year median time to progression with thalidomide for smoldering myeloma: partial response identifies subset requiring earlier salvage therapy for symptomatic disease. *Blood*. 2008 Oct 15;112(8):3122-5. PMID: 18669874; PMCID: PMC2569167.
20. Johnson DC, Corthals S, Ramos C, **Hoering A**, Cocks K, Dickens NJ, Haessler J, Goldschmidt H, Child JA, Bell SE, Jackson G, Baris D, Rajkumar SV, Davies FE, Durie BG, Crowley J, Sonneveld P, Van Ness B, Morgan GJ. Genetic associations with thalidomide mediated venous thrombotic events in myeloma identified using targeted genotyping. *Blood*. 2008 Dec 15;112(13):4924-34. PMID: 18805967; PMCID: PMC3601865.
21. Tricot G, Barlogie B, Zangari M, van Rhee F, **Hoering A**, Szymonifka J, Cottler-Fox M (2008). Mobilization of peripheral blood stem cells in myeloma with either pegfilgrastim or filgrastim following chemotherapy. *Haematologica* 93(11):1739-1742. PMID: 18728024
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61. Jethava Y, Mitchell A, Zangari M, Waheed S, Schinke C, Thanendrarajan S, Sawyer J, Alapat D, Tian E, Stein C, Khan R, Heuck CJ, Petty N, Avery D, Steward D, Smith R, Bailey C, Epstein J, Yaccoby S, **Hoering A**, Crowley J, Morgan G, Barlogie B, van Rhee F. Dose-dense and less dose-intensive Total Therapy 5 for gene expression profiling-defined high-risk multiple myeloma. *Blood Cancer J*. 2016 Jul 29;6(7):e453. PMID: 27471869; PMCID: PMC5030385.

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63. McDonald JE, Kessler MM, Gardner MW, Buros AF, Ntambi JA, Waheed S, van Rhee F, Zangari M, Heuck C, Petty N, Schinke C, Thanendrarajan S, Mitchell A, **Hoering A**, Barlogie B, Morgan G, Davies FE. Assessment of Total Lesion Glycolysis by 18F FDG PET/CT Significantly Improves Prognostic Value of GEP and ISS in Myeloma. *Clin Cancer Res*. 2016 Oct 3. pii: clincanres.0235.2016. PMID: 27698001.
64. Jethava Y, Mitchell A, Epstein J, Zangari M, Yaccoby S, Tian E, Waheed S, Khan R, Papanikolaou X, Graziutti M, Cottler-Fox M, Petty N, Steward D, Panozzo S, Bailey C, **Hoering A**, Crowley J, Sawyer J, Morgan G, Barlogie B, van Rhee F. Adverse metaphase cytogenetics can be overcome by adding bortezomib and thalidomide to fractionated melphalan transplants. *Clin Cancer Res*. 2016 Nov 3. pii: clincanres.2620.2015. PMID: 27810902.
65. Durie BG, **Hoering A**, Abidi MH, Rajkumar SV, Epstein J, Kahanic SP, Thakuri M, Reu F, Reynolds CM, Sexton R, Orłowski RZ, Barlogie B, Dispenzieri A. Bortezomib with lenalidomide and dexamethasone versus lenalidomide and dexamethasone alone in patients with newly diagnosed myeloma without intent for immediate autologous stem-cell transplant (SWOG S0777): a randomised, open-label, phase 3 trial. *Lancet*. 2016 Dec 22. pii: S0140-6736(16)31594-X. PMID: 28017406.
66. **Hoering A**, Durie B, Wang H, Crowley J. End points and statistical considerations in immuno-oncology trials: impact on multiple myeloma. *Future Oncol*. 2017 Apr 11. PMID: 28395525.
67. Schinke C, **Hoering A**, Wang H, Carlton V, Thanandrarajan S, Deshpande S, Patel P, Molnar G, Susanibar S, Mohan M, Mathur P, Radhakrishnan M, Hoque S, Jo Kamimoto J, Graziutti M, van Rhee F, Zangari M, Insuasti-Beltran G, Alapat D, Post G, Yaccoby S, Epstein J, Rasche L, Johnson S, Moorhead M, Willis T, Barlogie B, Walker B, Weinhold N, Davies FE, Morgan GJ. The prognostic value of the depth of response in multiple myeloma depends on the time of assessment, risk status and molecular subtype. *Haematologica*. 2017 Aug;102(8):e313-e316. Epub 2017 May 18. PubMed PMID: 28522572.
68. Thanendrarajan S, Tian E, Qu P, Mathur P, Schinke C, van Rhee F, Zangari M, Rasche L, Weinhold N, Alapat D, Bellamy W, Ashby C, Mattox S, Epstein J, Yaccoby S, Barlogie B, **Hoering A**, Bauer M, Walker BA, Davies FE, Morgan GJ. The level of deletion 17p and bi-allelic inactivation of TP53 has a significant impact on clinical outcome in multiple myeloma. *Haematologica*. 2017 May 26. pii: haematol.2017.168872. [Epub ahead of print] PMID: 28550191.
69. Ramanathan RK, Weiss GJ, Posner RG, Rajeshkumar NV, Jameson G, Aziz M, **Hoering A**, Bolejack V, Maitra A, Fulk M, Stites EC, Hlavacek WS, Gatalica Z, Xiu J, Hidalgo M, Von Hoff DD, Barrett MT. A phase 2 trial of personalized cytotoxic therapy based on tumor immunohistochemistry in previously treated metastatic pancreatic cancer patients. *J Gastrointest Oncol*. 2017 Dec;8(6):925-935. PMID: 29299351; PMCID: PMC5750179.

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73. Walker BA, Mavrommatis K, Wardell CP, Ashby TC, Bauer M, Davies F, Rosenthal A, Wang H, Qu P, **Hoering A**, Samur M, Towfic F, Ortiz M, Flynt E, Yu Z, Yang Z, Rozelle D, Obenauer J, Trotter M, Auclair D, Keats J, Bolli N, Fulciniti M, Szalat R, Moreau P, Durie B, Stewart AK, Goldschmidt H, Raab MS, Einsele H, Sonneveld P, San Miguel J, Lonial S, Jackson GH, Anderson KC, Avet-Loiseau H, Munshi N, Thakurta A, Morgan G. A high-risk, Double-Hit, group of newly diagnosed myeloma identified by genomic analysis. *Leukemia*. 2018 Jul 2. pii: s41375-018-0196-8. [Epub ahead of print] PMID: 29967379.
74. Ailawadhi S, Jacobus S, Sexton R, Stewart AK, Dispenzieri A, Hussein MA, Zonder JA, Crowley J, **Hoering A**, Barlogie B, Orlowski RZ, Rajkumar SV. Disease and outcome disparities in multiple myeloma: exploring the role of race/ethnicity in the Cooperative Group clinical trials. *Blood Cancer J*. 2018 Jul 6;8:67.
75. Lancet JE, Uy GL, Cortes JE, Newell LF, Lin TL, Ritchie EK, Stuart RK, Strickland SA, Hodge D, Solomon SR, Stone RM, Bixby DL, Kolitz JE, Schiller GJ, Wieduwilt MJ, Ryan DH, **Hoering A**, Banerjee K, Chiarella M, Louie AC, Medeiros BC. CPX-351 (cytarabine and daunorubicin) liposome for injection versus conventional cytarabine plus daunorubicin in older patients with newly diagnosed secondary acute myeloid leukemia. *J Clin Oncol*. 2018 Jul 19. [Epub ahead of print] PMID: 30024784.
76. **Hoering A**. Book Review: Scott Evans and Naitee Ting. *Fundamental Concepts for New Clinical Trials*. Boca Raton: CRC Press. Biometrics. 2018 Sep; 74(3):1131.
77. Choy E, Ballman K, Chen J, Dickson MA, Chugh R, George S, Okuno S, Pollock R, Patel RM, **Hoering A**, Patel S. SARC018_SPORE02: Phase II study of mocetinostat administered with gemcitabine for patients with metastatic leiomyosarcoma with progression or relapse following prior treatment with gemcitabine-containing therapy. *Sarcoma*. 2018 Oct. Article ID: 2068517.

Books and edited volumes:

1. Stanford DC, Clarkson DB, **Hoering A**. Clustering or Automatic Class Discovery: Hierarchical Methods. In: Berrar DP, Dubitzky W, and Granzow M, editors. A Practical Approach to Microarray Data Analysis. London: Kluwer; 2002.
2. Crowley J; **Hoering A**, eds. Handbook of Statistics in Clinical Oncology. Third Edition. Boca Raton. Chapman & Hall/CRC Press; 2012.
3. **Hoering A**, LeBlanc M, Crowley J. Chapter 6: Seamless phase I/II trial design for assessing toxicity and efficacy for targeted agents. In: Crowley J, **Hoering A**, eds. Handbook of Statistics in Clinical Oncology. Third edition. Boca Raton. Chapman & Hall/CRC Press; 2012: 97-106.
4. **Hoering A**, LeBlanc M, Crowley J. Chapter 17: Phase III trials for targeted agents. In: Crowley J, **Hoering A**, eds. Handbook of Statistics in Clinical Oncology. Third edition. Boca Raton. Chapman & Hall/CRC Press; 2012: 251-264.
5. **Hoering A**, LeBlanc M, Crowley J. Chapter 9: Comparison of Randomized Clinical Trial Designs for Targeted Agents. In: Matsui S, Buyse M, and Simon R, eds. Design and Analysis of Clinical Trials for Predictive Medicine. Chapman & Hall/CRC Press; 2015: 147-163.
6. **Hoering A**, Crowley J. Phase III Oncology Clinical Trials. In Kevin W, Halabi S, eds. Oncology Clinical Trials, Second Edition: Successful Design, Conduct, and Analysis; New York. Springer; 2018. 148-158.

Conference proceedings:

1. **Höring A**, Weidenmüller HA, Dietrich FS, Herman M, Reffo G (1990). A Study of Reaction Mechanisms for Gamma Production in Fast-Nucleon Induced Reactions, AIP Conference Proceedings, Capture Gamma-Ray Spectroscopy and Related Topics-1990 (International Symposium, Asilomar, California). PMID: n/a.
2. **Hoering A**, Clarkson BD, Gonzales R (2001). Random Effects Multidimensional Unfolding Models. Joint Statistical Meeting;276-281. www.amstat.org.
3. Mandrekar S, Geyer S, Suman V, Ballman K, **Hoering A**, Sargent D (2004). Clinical Trial Designs for Dose-seeking, Non-MTD Trials with Biomarker Endpoints, Joint Statistical Meeting. Toronto, Canada. Oral Presentation.
4. Slager S, McDonnell SK, Pankratz VS, **Hoering A**, Therneau TM, de Andrade M (2006). Evaluation of Three Approaches to Correct for Ascertainment of Pedigrees for Random-Effects Cox Proportional Hazard Linkage Analysis. Joint Statistical Meeting. Seattle, WA. Oral Presentation.

Publications about my work:

1. Karow J. Statistics Software Firms Size up Genomics; Three Micorarray Products Due to Launch. Bioinform July 15, 2002, www.bioinform.com.
2. Insightful wins \$750,000 SBIR Grant for Genomic Mining. July 2, 2002, www.genomeweb.com.

Others:

1. **Höring A.** Application of the Schematic Model to Four-Quasiparticle States. Master Thesis, University of Oregon, Corvallis, Oregon, 1988.
2. **Höring A.** Dipole-Gamma Emission in Pre-Equilibrium Nuclear Reactions (in German). Ph.D. Thesis, University of Heidelberg, Heidelberg, Germany, 1991.
3. Clarkson DB, **Hoering A** (2002). S+GeneExpress Preliminary Library Design, Technical Report, Insightful Corporation, Seattle, WA.

Funding History - Statistical Methods Grants

- 3/08 - 7/12: **Co-Investigator**, "Statistical Methods for Clinical Studies", 15%
Principal Investigator: Mike LeBlanc
NIH/NCI 2 R01 CA090998-06A2 (\$567,000).
- 5/02 – 4/04: **Principal Investigator** “Mendelian Model Based Inference in Statistical Genetics”, NIH/NIGMS 2 R44 GM60896-02 (\$749,755).
- 9/01 – 9/02: **Principal Investigator** “S+cDNA: Analysis Tools for Microarray Data”, NIH/NCI 1 R43 CA91631-01 (\$103,980).
- 3/00 – 8/01: **Principal Investigator** “Mendelian Model Based Inference in Statistical Genetics” NIH/NCI 1 R43 GM60896-01 (\$100,912).
- 9/96 – 4/99: **Principal Investigator** “Statistical Methods for Analyses of HIV Vaccine Trials”
Mentor: Steve Self
NIH/NIAID NRSA Postdoctoral Fellow 1 F32 A109651 (\$101,600).

Recently Completed Funding – Collaborative Grants and Contracts

- 9/17 – 3/19 **Co-Investigator** “The Transformer Trial” (5%)
Principal Investigator: Sam Denmeade
W81XWH-14-2-0189 **Subaward** (\$252,771/year)
- 12/15 – 11/17: **Co-Investigator** “PET Scan for Prognostication in Newly Diagnosed High Risk Multiple Myeloma” (2.5%)
Principal Investigator: Saad Usmani
R01 CA201634 **Subaward** (\$37,941/year)

Active Funding – Collaborative Grants and Contracts

- 4/14 – 2/19: **Consortium Principal Investigator** “SWOG Statistics and Data Management Center” (35%)
Principal Investigator: Michael LeBlanc
U10 CA180819 (\$7,038,884/year)
Subaward (\$4,389,507/year)
- 7/17 – 6/19: **Statistical Core Principal Investigator** “Growth Control in Multiple Myeloma” (20%)
Principal Investigator: Gareth Morgan

S190120936 **Subaward** (\$809,437/year)

7/15 – 6/19: **Co-Investigator** “Knight Cancer Inst Biostat Strategic and Business Plan” (5%)
Principal Investigator: Tomi Mori
PSC-2016-0249 **Subaward** (\$85,632/year)

8/14 – 7/19: **Principal Investigator:** “S1400, Phase Biomarker-Driven Master Protocol” (5%)
S1400 (\$1,657,669/year)

1/15 – 12/19: **Co-Investigator** “Role of TJP1 in Sensitivity and Resistance to Proteasome Inhibitors in Myeloma” (2.5%)
Principal Investigator: Robert Orlowski
R01 CA184464 **Subaward** (\$12,595/year)

1/16 – 12/19: **Co-Investigator** “Proteasome Assembly Chaperones in Sensitivity and Resistance to Proteasome Inhibitors” (2.5%)
Principal Investigator: Robert Orlowski
R01 CA194264 **Subaward** (\$12,595/year)

Presentations:

- *10/90: Oregon State University, Corvallis, Oregon,
“Gamma Emission in Statistical Nuclear Reactions”.
- *10/90: LBL, Berkeley, California,
“Gamma Emission in Statistical Nuclear Reactions”.
- *10/90: Asilomar, Conference on Capture Gamma Ray Spectroscopy (poster),
“A Study of Reaction Mechanism for Gamma Production in Fast-Nucleon Induced Reactions”.
- *4/91: Michigan State University, East Lansing, Michigan,
“Gamma Emission in Precompound Nuclear Reactions”.
- *6/91: University of Heidelberg, Heidelberg, Germany,
“Dipole-Gamma Emission in Pre-Equilibrium Reactions”.
- *8/91: University of Heidelberg, Symposium on Theoretical Nuclear Physics in East and West Germany, “Dipole-Gamma Emission in Pre-Equilibrium Reactions”.
- *5/92: University of Washington, Seattle, Washington,
“Characterization of Spectral Fluctuations”.
- *10/93: MPI, Heidelberg, Symposium on Fluctuations, Chaos and Symmetries,
“Time-Reversal Noninvariant, Parity Conserving Nuclear Interactions”.
- *5/94: APL, University of Washington, Seattle, Washington,
“Energetics of an Internal Bore”.
- *8/94: INT, Program on Applications of Chaos in Many-Body Quantum Physics,
“Constraints on T-odd and P-even Hadronic Interactions”.

- *2/95: TRIUMP, Vancouver, Canada,
“Constraints on T-odd and P-even Hadronic Interactions”.
- *3/95: Argonne National Laboratory, Chicago, Illinois,
“Constraints on T-odd and P-even Hadronic Interactions”.
- *3/95: Indiana University, Bloomington, Indiana,
“Constraints on T-odd and P-even Hadronic Interactions”.
- *2/96: European Center for Theoretical Studies in Nuclear Physics, ECT*,
“From Chaos to Breaking of Time-Reversal Invariance”.
- *2/99: Insightful Corporation, Seattle, WA,
“On the Use of Viral Endpoints in HIV Vaccine Efficacy Trials”.
- *3/99: MD Anderson Cancer Research Center, Houston, TX,
“On the Use of Viral Endpoints in HIV Vaccine Efficacy Trials”.
- 8/01: Joint Statistical Meeting, Atlanta, Georgia,
“Random Effects Multidimensional Unfolding Models”.
- *11/02: Northwestern University, Chicago, IL,
“On the Use of Viral Endpoints in HIV Vaccine Efficacy Trials”.
- *11/02: Mayo Clinic, Rochester, MN,
“On the Use of Viral Endpoints in HIV Vaccine Efficacy Trials”.
- *7/04: Cancer Research And Biostatistics, Seattle, WA,
“Mixed Effects Cox Model and Ascertainment Effects”.
- *6/06: International Myeloma Workshop, Kos, Greece,
“Clinical Trial Designs for Multiple Myeloma”.
- *7/07: Fred Hutchinson Cancer Research Center, Seattle, WA,
“Phase III Trial Design for Targeted Therapies”.
- *9/07: Biostatistics Departmental Retreat, University of Washington, WA,
“Statistics at CRAB and Clinical Trial Designs for Targeted Therapies”.
- *10/07: Southwest Oncology Group Meeting, Huntington Beach, CA,
“Statistical Analyses for Bank on a Cure, a Myeloma-Specific DNA Bank”.
- *5/08: Southwest Oncology Group Meeting Plenary Session, Atlanta, GA,
“Randomized Phase III Clinical Trial Designs for Targeted Agents”.
- 6/10: American Society of Clinical Oncology, Annual Meeting, Chicago, Illinois,
“Genomic Evolution in Total Therapy 2 and Total Therapy 3 for Newly Diagnosed Multiple Myeloma”.
- *6/10: Western North American Region of the International Biometrics Society, Seattle, WA,
“Seamless Phase I/II Trial Design for Targeted Agents”.
- 12/10: American Society of Hematology, Annual Meeting, Orlando, FL
“Prognostic Index for Predicting Overall Survival and Event-Free Survival in Total Therapy 3 Patients”.
- *3/11: Clinical Trials Affinity Group, Fred Hutchinson Cancer Research Center,
“Randomized Phase III clinical Trial Designs for Targeted Agents”.

- *2/12: Department of Biostatistics, Departmental Seminar, University of Washington, Seattle, WA, “Randomized Phase III clinical Trial Designs for Targeted Agents”.
- *10/12: Beijing University of Chinese Medicine, Beijing, China, “Design of Cancer Clinical Trials, Phase I-III”.
- *10/12: Beijing University of Chinese Medicine, Beijing, China, “Phase III Oncology Clinical Trials in the Era of Targeted Agents”.
- *4/14: American Association of Cancer Research, San Diego, California, “Statistical Designs in Complex Phase II Trials and Definitive Phase III Studies in the Era of Targeted Agents”.
- *11/14: Canadian Statistical Sciences Institute (CANSSI), Toronto, Canada, “Randomized Phase III Clinical Trial Designs for Targeted Therapies”
- *8/15: Pacific Rim Cancer Biostatistics Conference, Seattle, WA, “Early Phase Trial Design for Targeted Agents”
- *4/16: East Seminar, Seattle, WA, “Practical Challenges with S1400 – Lung-MAP”
- *8/16: Joint Statistical Meeting, Chicago, IL “Teams in the Setting of Coordinating Centers”
- *9/16 Minimal Residual Disease as a Surrogate Endpoint in Hematologic Cancer Trials, Washington, DC, Panelist “Use of MRD as a Surrogate Endpoint in Multiple Myeloma”
- *9/16 Cancer Clinical Trial Methods Workshop, Knight Cancer Institute “Phase II and I-II Trial Designs” and “Integration of Biomarkers into Clinical Trials”
- *10/17 Jeri & Noboru Oishi Symposium, SWOG Group Meeting, Chicago, IL “Updates on SWOG Myeloma Study S0777”
- *11/17 Addressing the Cancer Burden in Mexico and the US Hispanic and Native American Populations through Clinical Trials, Mexico City, Mexico “Integration of Biomarkers into Phase III Trial Designs”

Teaching History:

Taught two courses for upper division physics majors preparing to be high school science teachers, Physics Department, University of Washington, Winter 1995, Spring 1996.

Tutored students and organized seminars in the program on Research Experience for Undergraduates, Physics Department, University of Washington, Summer 1996.

Taught tutorial sessions as part of introductory physics classes, Physics Department, University of Washington, Fall 1995 through Spring 1996.

Lead the CRAB statistics team, including 5 PhD statisticians, 7 MS statisticians and one SAS programmer, since 2004.

Ph.D. applied Exam Grader, 2009.

Mentor new medical doctor in the SWOG Myeloma committee at the SWOG Young Investigator Course, 2010, 2012.

Coordinator of SWOG Young Investigator Course (SWOG Clinical Trials Training Course and Protocol Development), 2011, 2012, 2013, 2014.

Instructor at Summer Institute in Biostatistics, University of Washington. Taught 2.5-day intensive workshop on “Design of Clinical Trials in Oncology”, 8/2012, 8/2013.

Advisory Board Member on Bachelor’s of Public Health Degree at the Lake Washington Institute of Technology (LWIT), 8/2013 – 5/2016.

Instructor and mentor at CRAB/Cancer Treatment Center of America Clinical Trials Training Course, 10/2013, 4/2014, 11/2014, 5/2015.

Instructor at the Statistics in Clinical Oncology Workshop at the Belgian Cancer Academy, 10/2014

Instructor at Cancer Clinical Trial Methods: Training and Workshop at the Knight Cancer Institute, 9/2016

Faculty at American Society of Hematology Clinical Research Training Institute, 7/2017

Instructor at Addressing the Cancer Burden in Mexico and the US Hispanic and Native American Populations through Clinical Trials, 11/2017

Faculty at American Society of Hematology Clinical Research Training Institute, 7/2018