AASTHAA BANSAL

CONTACT INFORMATION

Department of Biostatistics
University of Washington, Box 359461
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EDUCATION

Ph.D. Biostatistics 2011
University of Washington, Seattle, WA
- Title: "Combining Biomarkers to Improve Performance in Diagnostic Medicine"
- Committee: Margaret S. Pepe (chair), Kathleen F. Kerr, Yingye Zheng, Ziding Feng

M.S. Biostatistics 2008
University of Washington, Seattle, WA

B.Math. Honors Computer Science: Bioinformatics Option 2006
University of Waterloo, Waterloo, ON

RESEARCH & PROFESSIONAL EXPERIENCE

Post-doctoral Senior Fellow 2012 – Present
University of Washington, Seattle, WA

Research Assistant 2009 – 2011
Center for Biomedical Statistics, University of Washington, Seattle, WA

Research Assistant 2007 – 2009
Biostatistics & Biomathematics, Fred Hutchinson Cancer Research Center, Seattle, WA

Research Assistant 2006 – 2007
Collaborative Health Studies Coordinating Center, University of Washington, Seattle, WA

Bioinformatics Intern 2005
Centre for Human Proteomics, Royal College of Surgeons in Ireland, Dublin, Ireland

Molecular Biology Lab Intern 2004
Cangene Corporation, Mississauga, ON, Canada

Ocular Genetics Lab Intern 2004
The Hospital for Sick Children, Toronto, ON, Canada

Software Test Intern 2002, 2003
Sitraka Inc. (Now Part of Quest Software), Toronto, ON, Canada

TEACHING EXPERIENCE

Guest Lecturer, Department of Biostatistics, University of Washington, Seattle, WA
- Biost 578: Statistical Methods for the Evaluation of Biomarkers and Medical Tests 2011

Teaching Assistant, Department of Biostatistics, University of Washington, Seattle, WA
- Biost 508: Biostatistical Reasoning for the Health Sciences 2010
- Biost 512: Medical Biometry II 2009

AWARDS & SCHOLARSHIPS

▪ Young Investigator Award, Section on Statistics in Epidemiology, American Statistical Association	2011
▪ Student Oral Presentation Runner-up, Western North American Region of the International Biometric Society	2010
▪ Student Poster Awards, Department of Biostatistics, University of Washington	2009
- Best Poster as chosen by Faculty	
- Best Poster as chosen by First-year Students	
▪ Ireland Canada University Foundation Scholarship	2005
▪ Work-term Report Award, Faculty of Mathematics, University of Waterloo	2003
▪ University of Waterloo Entrance Scholarship	2001
▪ Queen Elizabeth II Aiming for the Top Scholarship, Government of Ontario	2001-2006

ARTICLES: PUBLISHED/ACCEPTED

1. Soltes G, Hust M, Ng K, **Bansal A**, Field J, Dübel S, Cha S, Wiersma EJ (2007). On the Influence of Vector Design on Antibody Phage Display. *Journal of Biotechnology*, 127(4), 626-37.

2. Weinert C, Cudney S, Comstock B, **Bansal A** (2011). Computer Intervention Impact on Psychosocial Adaptation of Rural Women with Chronic Conditions. *Nursing Research*, 60(2), 82-91.

3. Adams Waldorf KM, Gravett MG, McAdams RM, Paolella LJ, Gough GM, Carl DJ, **Bansal A**, Liggitt HD, Kapur RP, Reitz FB, Rubens CE (2011). Choriodecidual Group B Streptococcal Inoculation Induces Fetal Lung Injury without Intra-Amniotic Infection and Preterm Labor in *Macaca Nemestrina*. *PLoS ONE* 6(12): e28972.

4. Larson-Meyer DE, Palm S, **Bansal A**, Austin KJ, Hart AM, Alexander BM (2012). Influence of Running and Walking on Hormonal Regulators of Appetite in Women. *Journal of Obesity,* vol. 2012, Article ID 730409.

5. Kerr KF, **Bansal A**, Pepe MS (2012). Comment on 'Interpreting Incremental Value of Markers Added to Risk Prediction Models'. *American Journal of Epidemiology.* 176(6): 482-487.

6. **Bansal A**, Pepe MS (2013). When Does Combining Markers Improve Classification Performance and What Are Implications for Practice? *Statistics in Medicine*, Epub before print DOI: 10.1002/sim.5736.

7. **Bansal A**, Pepe MS (2013). Estimating Improvement in Prediction with Matched Case-Control Designs. *Lifetime Data Analysis*, Epub before print: DOI 10.1007/s10985-012-9237-1.

8. Novotny SC, Perusek GP, Rice AJ, Comstock BA, **Bansal A**, Cavanagh (2013). A Harness for Enhanced Comfort and Loading during Treadmill Exercise in Space. *Acta Astonautica*, Epub before print: DOI 10.1016/j.actaastro.2013.03.010.

BOOK CHAPTERS: PUBLISHED/ACCEPTED

9. **Bansal A**, Pepe MS (2013). Estimating Improvement in Prediction with Matched Case-Control Designs. In MLT Lee, M Gail, G Satten, T Cai, A Gandy, R Pfeiffer (Ed.) Risk assessment and evaluation of predictions. Springer.

ARTICLES: SUBMITTED

10. Asher C, Hibbard D, Morcos M, **Bansal A**, Comstock B, Pellegrini C, Shankaran V, Patel S. Tumor Length as a Prognostic Factor in Esophageal Cancer Management.

11. Solorio R, **Bansal A**, Comstock B, Ulatowski K. Impact of a Chronic Care Coordinator Intervention on Diabetes Quality of Care in a Community Health Center.

12. Weinert C, Cudney S, Comstock B, **Bansal A**. A Computer-Based Intervention for Illness Self-Management among Rural Women with Chronic Health Conditions: A Randomized Parallel-Group Study.

ARTICLES: IN PREPARATION

13. **Bansal A**, Heagerty PJ. Using Incident Cases to Evaluate the Time-Varying Performance of Prognostic Markers.

14. Heagerty PJ, **Bansal A**, Liang CJ. Dynamic Placement Values: A Basis for Evaluating Prognostic Potential.

15. **Bansal A**, Heagerty PJ. Methods for Combining Markers into a Single Prognostic Score.

16. Dardas T, **Bansal A**. Assessing the Concordance Between Risk and Elective Organ Procurement Rankings Among Transplant Registrants With Implanted Left Ventricular Assist Devices.

17. **Bansal A**, Ringold S. Performance of the Continuous Rheumatoid Arthritis Disease Activity Measures in Children with Oligoarticular or Polyarticular Juvenile Idiopathic Arthritis.

18. Salk JJ, **Bansal A**, Lai LA, Crispin DA, Ussakli CH, Horwitz MS, Bronner MP, Brentnall TA, Loeb LA, Rabinovitch PS, Risques RA. Clonal expansions and shortened telomeres in non-dysplastic mucosa are associated with neoplasia in early-onset, but not late-onset, ulcerative colitis.

PRESENTATIONS

Invited Presentations

- Department of Biostatistics Annual Retreat, University of Washington, Seattle, WA, 2010.
  Improvement in Performance by Combining Biomarkers in Diagnostic Medicine.

- Center for Drug Evaluation and Research, Food and Drug Administration, Silver Spring, MD, 2011.
  When Does Combining Markers Improve Classification Performance?

- Center for Devices and Radiological Health, Food and Drug Administration, Silver Spring, MD, 2011.
  When Does Combining Markers Improve Classification Performance?

Contributed Presentations

- Joint Statistical Meetings, Washington DC, 2009.
  Improvement in Performance by Combining Biomarkers in Diagnostic Medicine.

- International Biometric Society (Western North American Region) Annual Meeting, Seattle, WA, 2010.
  When Does Combining Markers Improve Classification Performance?

- Joint Statistical Meetings, Vancouver, BC, 2010.
  Estimating the Improvement in Performance by Combining Biomarkers in a Two-Stage Study Design.

- Joint Statistical Meetings, Miami, FL, 2011.
  When Does Combining Markers Improve Classification Performance and What Are Implications for Practice?

Student Seminars, Department of Biostatistics, University of Washington, Seattle, WA

- *A Survey of Biomarker Theory and Practice for Early Detection of Cancer. 2010.*
- *Improvement in Performance by Combining Biomarkers in Diagnostic Medicine. 2010.*

PROFESSIONAL ACTIVITIES & SERVICE

- Member, American Statistical Association   2010 – Present
- Member, International Biometric Society – Western North American Region   2008 – Present
- Reviewer for: Biostatistics (2009), Statistics and Computing (2011-2012)

Department of Biostatistics, University of Washington

- Organizer, Biomarker and Longitudinal Data Working Group   2012 – Present
- Member, Randomized Clinical Trials Working Group   2010 – 2011
- Volunteer, Admitted Student Visit Days   2008 – 2010
- Organizer, Medical Diagnostics Working Group   2007 – 2009

University of Waterloo

- Executive Committee, Bioinformatics Club   2002 – 2006
- Student Orientation Leader   2003 – 2005