

Xuekui Zhang

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EDUCATION

- ◇ PhD student in Statistics, University of British Columbia (UBC) 09/2007 - 05/2011
Supervisor: Dr Raphael Gottardo and Dr Kevin Murphy
- ◇ MSc in Statistics, UBC 09/2003 - 05/2005
- ◇ MSc in Mathematics (Stochastic processes), Nankai University 09/2000 - 06/2003
- ◇ BSc in Mathematics (Pure math), Nankai University 09/1996 - 06/2000

RESEARCH INTEREST

- ◇ Bioinformatics, Bayesian methods, Machine learning, Mixture models,
- ◇ Statistical genetics, Statistical genomics

SELECTED AWARDS

- ◇ NSERC CGS-D (National) (\$70,000 CDN) 2009 - 2011
- ◇ BCIC Innovation Scholarship (Provincial) (\$75,000 CDN) 2007 - 2010
- ◇ Tuition scholarship, 14th SISG, University of Washington 2009
- ◇ Travel award, GIMMC/IPSW 2009, The PIMS 2009
- ◇ Tuition scholarship, 13th SISG, University of Washington 2008
- ◇ Travel award, University of British Columbia 2008
- ◇ Tuition award, University of British Columbia 2007 - 2011
- ◇ Entrance Scholarship, University of British Columbia 2007
- ◇ Travel award, GIMMC/IPSW 2004, The PIMS 2004

PUBLICATION

(*IF: Impact Factor of the Journal in 2008*)

1. **Xuekui Zhang**, Gordon Robertson, Martin Krzywinski, Kaida Ning, Arnaud Droit, Steven Jones, and Raphael Gottardo (2009) PICS: Probabilistic Inference for ChIP-seq, *Biometrics* (revising according to reviewer's comments) (*IF* 1.970)
2. DD Sin, D Tashkin, **X Zhang**, F Radner, U Sjöbring, A Thorén, PMA Calverley, SI Rennard (2009) Budesonide and the risk of pneumonia: a meta-analysis of individual patient data, *The Lancet* 374(9691): 712-719. (*IF* 28.409)
3. SFP Man, **X Zhang**, R Vessey, T Walker, K Lee, D Park, DD Sin (2009) The Effects of Inhaled and Oral Corticosteroids On Serum Inflammatory Biomarkers in COPD: An Exploratory Study *Therapeutic Advances in Respiratory Disease* 3(2): 73-80.
4. J-Q He, MG Foreman, K Shumansky, **X Zhang**, L Akhbir, DD Sin, SFP Man, DL DeMeo, AA Litonjua, EK Silverman, JE Connett, NR Anthonisen, RA Wise, PD Paré, AJ Sandford (2009) Associations of IL6 polymorphisms with lung function decline and COPD. *THORAX*. 64(8):698-704. (*IF* 7.069)
5. SFP Man, L Xing, JE Connett, NR Anthonisen, RA Wise, DP Tashkin, **X Zhang**, R Vessey, TG Walker, BR Celli and DD Sin (2008) Circulating fibronectin to C-reactive protein ratio and mortality: a biomarker in COPD? *European Respiratory Journal*. 32:1451-1457 (*IF* 5.545)
6. E Tamagawa, N Bai, K Morimoto, C Gray, T Mui, K Yatera, **X Zhang**, L Xing, Y Li, I Laher, DD Sin, SFP Man, SF van Eeden (2008) Particulate Matter Exposure Induces Persistent Lung Inflammation and Endothelial Dysfunction. *American Journal of Physiology - Lung Cellular and Molecular Physiology*. 295: L79-L85 (*IF* 3.924)

7. Soriano JB, Sin DD, **Zhang X**, Camp PG, Anderson JA, Anthonisen NR, Buist AS, Burge PS, Calverley PM, Connett JE, Petersson S, Postma DS, Szafranski W, Vestbo J. (2007) A pooled analysis of FEV1 decline in COPD patients randomized to inhaled corticosteroids or placebo. *Chest*. 131:682-689 (IF 5.154)
8. J-Q He, K Shumansky, **X Zhang**, JE Connett, NR Anthonisen, AJ Sandford (2007). Polymorphisms of Interleukin-10 and its Receptor and Lung Function in COPD. *European Respiratory Journal*. 29(6):1120-6. (IF 5.545)
9. **Xuekui Zhang**, (2001) Variation and strongly differentiability of a vector valued function. *Acta Scientiarum Naturalium Universitatis Nakaensis*. Vol.34 No.2 P.62-66
10. **Zhang X**, Robertson G, Krzywinski M, Ning K, Droit A, Jones S and Gottardo R. (2009). PICS: Probabilistic Inference for ChIP-seq. Technical Report. *arXiv:0903.3206v1* [q-bio.GN]
11. Team report (2004) Detecting Hackers (Analyzing Network Traffic) by Poisson Model Measure. *Report on the Eighth Annual PIMS Industrial Problem Solving Workshop*.
12. **Xuekui Zhang**, (2000) Microsoft Access 2000 Chinese Version (book). Publishing House of Electronics Industry, China

POSTER PRESENTATIONS

- ◇ **Xuekui Zhang**, Raphael Gottardo, Gordon Robertson, Kaida Ning, (2009) Probabilistic Inference for ChIP-Seq, *Recent advances in modeling biological processes* Seattle, WA
- ◇ L Akhabir, **X Zhang**, J Connett, N Anthonisen, M Lathrop, W Cookson, P Par, A Sandford, (2009) Nicotinic Acetylcholine Receptor Polymorphism, Smoking History and Lung Function Decline, *American Thoracic Society international meeting*, San Diego, CA

ORAL TALKS

- ◇ Probabilistic Inference for ChIP-Seq, *IMS-China 2009*, 07/2009
- ◇ Bayesian model for Family-Based Genetic Association Study, *ICISE 2009*, 07/2009
- ◇ Probabilistic Inference for ChIP-Seq, *SSC 2009*, 05/2009
- ◇ Bayesian model for Family-Based Genetic Association Study, *SSC 2009*, 05/2009
- ◇ Simultaneous Non-Parametric Constrained Regressions of Unbalanced Longitudinal Data, *Dept. of Statistics, UBC*, 05/2005

WORKING EXPERIENCE

- Senior Statistical Analyst (part-time), The James Hogg iCAPTURE Centre, University of British Columbia** 08/2008 -
- Biostatistician, SiriusGenomics Inc., Vancouver** 08/2006 - 05/2008
- Statistician (part-time), Health Research Methods & Training Facility, Simon Fraser University** 09/2006 - 08/2007
- Statistician, The James Hogg iCAPTURE Centre, UBC** 06/2005 - 08/2006
- SAS programmer (part-time), Faculty of Business Administration, Simon Fraser University** 10/2005 - 01/2006
- RA, Statistics Department of UBC** 05/2004 - 08/2004, 05/2005 - 06/2005
- RA (Statistician), Psychology Department of UBC** 09/2004 - 12/2004
- RA (Statistician), Anthropology & Sociology Department of UBC** 10/2004 - 11/2004
- Teaching Assistant, Statistics Department of UBC** 09/2003 - 04/2005

COMPUTER SKILLS

- ◇ Proficient in R/S-Plus and L^AT_EX; familiar with SAS
- ◇ Some experience with with MATLAB, SPSS, Mathematica, C, SQL