

Curriculum Vitae

Timothy A. Thornton

Department of Biostatistics
University of Washington
1705 NE Pacific St., F600 HSB
Box 357232
Seattle, WA 98195-7232

Fax: 206-543-3286
Work phone: 206-543-8004
Cell phone: 804-721-3466
E-mail: tathornt@u.washington.edu

Employment

2009- *Assistant Professor, University of Washington, Department of Biostatistics*
2008-2009 *Postdoc, University of California, San Francisco, Institute for Human Genetics*
 Sponsor: Professor Neil Risch
2006-2008 *Postdoc, University of California, Berkeley, Department of Statistics*
 Sponsor: Professor Terence Speed

Education

University of Chicago
Ph.D. in Statistics, 2005
Advisor: Professor Mary Sara McPeck

Hampton University
B.S. in Mathematics, 1998
Magna Cum Laude, Salutatorian

Honors, Awards, Scholarships

2008-2009 University of California, San Francisco Lamond Family Postdoctoral Fellowship
2006-2008 University of California President's Postdoctoral Fellowship
2006 FASEB-MARC Travel Award
1998-2005 University of Chicago Graduate Fellowship
1998-2004 David and Lucile Packard Foundation Graduate Fellowship
1998-2002 Office of Naval Research-Historically Black Colleges and Universities Graduate Fellowship
1998 Graduate Degrees for Minorities in Engineering and Science Fellowship
1994-1998 Office of Naval Research Student Enhancement in Mathematics and Science Scholarship

Refereed Articles in Peer Reviewed Journals

1. Anderson-Cook CM and **Thornton T** (1998). "Measuring Hockey's Special Teams Efficiency." *Chance* 11: 26-34.
2. Anderson-Cook CM and **Thornton T** (1998). "Response to Letter to the Editor: Shorthanded." *Chance* 12: 3-5.
3. **Thornton T** and McPeck MS (2007). "Case-Control Association Testing with Related Individuals: A More Powerful Quasi-Likelihood Score Test." *American Journal of Human Genetics* 81: 321-337.

4. FitzGerald LM, Patterson B, Thomson R, Polanowski A, Quinn S, Brohede J, **Thornton T**, Challis D, Mackey D, Dwyer T, Foote S, Hannan GN, Stankovich J, McKay JD, Dickinson JL (2009). "Identification of a Prostate Cancer Susceptibility Gene on Chromosome 5p13q12 Associated with Risk of Both Familial and Sporadic Disease." *European Journal of Human Genetics* 17: 368-377
5. **Thornton T** and McPeck MS (2010) "ROADTRIPS: Case-Control Association Testing with Partially or Completely Unknown Population and Pedigree Structure." *American Journal of Human Genetics* 86: 172-184.
6. Phasukijwattana N, Kunhapan B, Stankovich J, Chuenkongkaew WL, Thomson R, **Thornton T**, Bahlo M, Mushiroda T, Nakamura Y, Mahasirimongkol S, Tun AW, Srisawat C, Limwongse C, Peerapittayamongkol C, Sura T, Suthammarak W, Lertrit P (2010) "Genome-wide Linkage Scan and Association Study of PARL to the Expression of LHON Families in Thailand." *Human Genetics* 128: 39-49
7. Tore S, Casula S, Casu G, Concas MP, Pistidda P, Persico I, Sassu A, Maestrale GM, Caterina Mele C, Caruso MR, Bonerba B, Usai P, Deiana I, **Thornton T**, Pirastu M, and Forabosco P (2010) "Application of a new method for GWAS in a related case/control sample with known pedigree structure: identification of new loci for nephrolithiasis" *PLoS Genetics* (in press)

Other refereed scholarly publications (proceedings, policy papers and reviews, book chapters)

1. Anderson-Cook CM, **Thornton T**, Robles R (1997), "Measuring Hockey Powerplay and Penalty Killing Efficiency", *Proceedings of the American Statistical Association Section on Statistics in Sports*, Alexandria, VA: American Statistical Association, 11-14.

Funding History

9/1/2010-8/31/2015 NIH/NCI K01 Grant (K01 CA 148958), "Statistical Methods for Cancer Genetic Association Studies with Hidden Population Structure and Related Individuals", Total Direct Costs: \$686,755, **PI: Thornton T**

8/1/2009-1/31/2011 NIH/NHLBI Subcontract from UCSF (N01 WH-2-2110), "Women's Health Initiative SNP Health Association Resource Analytic Center (SHARe Analytic Centers)", Total Direct Costs: \$45,131, **PI: Thornton T/Risch N**

7/1/2009-6/30/2012 NIH/NCI Subcontract from FHCRC (CA 15704), Cancer Center Support Grant, Total Direct Costs: \$100,000, **PI: Thornton T**

Invited Talks

Oct 2009 Fred Hutchinson Cancer Research Center
 Jun 2009 University of Washington, Summer Institute in Statistical Genetics, Module on Human Population Genetic Data Analysis
 Dec 2008 School of Industrial & Systems Engineering, Georgia Institute of Technology
 Nov 2008 Blackwell-Tapia Conference, Statistical and Applied Mathematical Sciences Institute
 Jun 2008 Walter and Eliza Hall Institute of Medicine, Melbourne, Australia
 Jun 2008 Menzies Research Institute, Hobart, Tasmania, Australia
 Apr 2008 Department of Biostatistics, University of Washington
 Feb 2008 Department of Statistics, University of California, Berkeley

Feb 2008 Department of Statistics, University of California, Riverside
Jan 2008 Joint Mathematics Meetings
Oct 2007 Walter and Eliza Hall Institute of Medicine, Melbourne, Australia
Sep 2007 Department of Mathematics, Tulane University
Jan 2007 Department of Statistics, University of California, Irvine
Nov 2006 Walter and Eliza Hall Institute of Medicine, Melbourne, Australia
Apr 2006 Department of Statistics, North Carolina State University
Dec 2005 Department of Statistics, University of Chicago
Dec 2005 Division of Biostatistics, Mayo Clinic
Sep 2005 Department of Preventive Medicine & Epidemiology, Loyola University

Contributed Talks

Oct 2006 American Society of Human Genetics Annual Meeting (poster)
Aug 2005 Joint Statistical Meetings

Formal Teaching

University of Chicago

STAT 200 Introductory Statistics (100% Responsibility)
(Fall 1999, Spring 2000)

University of California, Berkeley

STAT 20 Introduction to Probability and Statistics (100% Responsibility)
(Summer 2006, Summer 2007)

University of Washington

BIOST 516 Statistical Methods in Genetic Epidemiology (100% Responsibility)
(Fall 2009, Fall 2010)

MS and PhD student committees at UW

Saeed Hamine, 2009, M.S., Genetic Epidemiology
Nora Kozloff, 2010, M.S., Genetic Epidemiology
Rora Rohlf, 2010, Ph.D., Genome Sciences

Refereeing

Biometrics
Bioinformatics
Genetic Epidemiology
Statistical Applications in Genetics and Molecular Biology
Annals of Human Genetics
International Journal of Health Geographics

Professional Memberships

American Statistical Association

Institute of Mathematical Statistics

American Association for the Advancement of Science

American Society of Human Genetics