

CURRICULUM VITAE of Wenyi Wang

CONTACT

Personal website: <http://www.biostat.jhsph.edu/~wwang2>
Email: wwang2@jhsph.edu
Mailing address Department of Biostatistics
Johns Hopkins Bloomberg School of Public Health
615 North Wolfe Street, E3033,
Baltimore, MD, 21205
Telephone: (443) 320-3889

EDUCATION

2003-present Ph.D. candidate in Biostatistics, [Department of Biostatistics, Johns Hopkins University](#)
Thesis advisor: [Giovanni Parmigiani](#).
2001-2003 M.A. in Nutrition, [Institute of Human Nutrition, Columbia University](#)
1997-2001 B.S. in Biology, [Fudan University School of Life Sciences](#), Shanghai China.
Thesis: "Study of Non-specific Lipid Transfer Protein."
Thesis advisor: Kaiming Cao.

HONORS AND AWARDS

2006 Student Conference Fund Award at Johns Hopkins Bloomberg School of Health
The 15th Genetic Analysis Workshop, November 12-15, 2006
2006 Travel Award for the International Genetic Epidemiology Society 15th Annual Meeting,
November 16-17, 2006
2005 The June B. Culley Award for outstanding achievement in the second-year oral exam,
Johns Hopkins School of Public Health Department of Biostatistics
2004-present University scholarship for Ph.D. student,
Johns Hopkins School of Public Health Department of Biostatistics
2001-2003 University scholarship for Ph.D. student,
Institute of Human Nutrition, Columbia University
2001 Second-level People Scholarship, Fudan University
2000 First-level People Scholarship, Fudan University
1999 Second-level People Scholarship, Fudan University
1998 First-level People Scholarship, Fudan University
1997-2001 Honor science program for talented students in mathematics, physics and chemistry,
waived from the College Entrance Exam, Fudan University, Shanghai China
1994-1997 Honor science program for talented students in mathematics, physics and chemistry
High School Affiliated to Fudan University, Shanghai China
Admission rate: 1/10 among students rated top 10 from the 40 best middle schools in
Shanghai, China (City population: 10 million)
1997 First prize in the Shanghai High-School Chemistry Competition
1996 First prize in the Shanghai High-School Applied Mathematics Competition
1996 Second prize in Shanghai High-School Chemistry Competition
(compete with senior students as a junior)
1994 First prize in National Middle-School Mathematics Competition in China

RESEARCH EXPERIENCE

6/2003 - present *Research Assistant*

Dr. Giovanni Parmigiani, Johns Hopkins University Department of Oncology,
Division of Clinical Trials and Biometry

- Develop novel statistical methodology for accurate copy number estimation and genotype calls using SNP arrays
- Develop Mendelian prediction models for pancreatic cancer and cutaneous melanoma
- Establish general framework for validating cancer risk prediction models using family registries
- Develop novel statistical approaches for modeling syndrome overlap

6/2004 - 8/2004 *Summer Intern*

Dr. Fanhui Kong, Food and Drug Administration Center for Drug Evaluation and Research (CDER)

- Compare existing methods for missing data over repeated measures

6/2002 - 5/2003 *Research Assistant*

Dr. Lloyd A. Greene, Columbia University Department of Pathology

- Identify the function of Siah1 in the JNK pathway for cell apoptosis

6/2000 - 6/2001 *Research Assistant*

Dr. Kaiming Cao Fudan University School of Life Sciences Key Laboratory of Chinese Rice Genome Project

- Study the function of rice nonspecific lipid transfer proteins

TEACHING EXPERIENCE

2006	Member of Teaching Assistant Training Committee, Department of Biostatistics, Johns Hopkins University
2006	Teaching Assistant, 140.622 Statistical Methods in Public Health II
2006	Teaching Assistant, 140.621 Statistical Methods in Public Health I
2005-2006	Teaching Assistant, 140.621-4 Statistical Methods in Public Health I-IV
2004-2005	Teaching Assistant, 140.621-4 Statistical Methods in Public Health I-IV Class enrollment: 400

SOFTWARE

R PACKAGES and FUNCTIONS

BayesMendel: comprehensive environment for prediction of inherited cancer susceptibility [[Website](#)]

- Documentation and testing of established functions (BRCAPRO, MMRpro)
- Development of new functions (PancPro, MELAPRO)
- Generalization of subroutines to arbitrary pedigree structure and number of genes

CNRLMM: genome-wide copy number estimation using allele specific robust linear mixture models for SNP arrays (under development).

SERVICE

Referee for: *Clinical Genetics*.

PUBLICATIONS

Articles (peer reviewed)

1. **Wang W**, Chen S, Brune KA, Hruban RH, Parmigiani G and Klein AP. Development and validation of a risk assessment tool for individuals with a family history of pancreatic cancer: PancPRO. *Journal of Clinical Oncology*. to appear
2. Chen S, **Wang W**, Lee S, Nafa K, Lee J, Romans K, Watson P, Gruber SB, Euhus D, Kinzler KW, Jass J, Gallinger S, Lindor N, Casey G, Ellis N, Giardiello FM, the Colon Cancer Family Registry, Offit K, Parmigiani G. Prediction of Germline Mutations and Cancer Risk in the Lynch Syndrome. *Journal of the American Medical Association* September 27, 2006; 296(12): 1479-1487. [[Abstract](#)][[Full text](#)][[PDF](#)]
3. Gonzalez JR, **Wang W**, Ballana E and Estivill X. A recessive Mendelian model to predict carrier probabilities of DFNB1 for non-Syndromic deafness. *Human Mutation* 2006; DOI 10.1002/humu.20390. [[Abstract](#)][[PDF](#)]
4. Chen S, **Wang W**, Broman K and Parmigiani G. BayesMendel: An R Environment for Mendelian Risk Prediction. *Statistical Application in Genetics and Molecular Biology* 3(1): Article 21, 2004. [[Abstract](#)][[PDF](#)]
5. Xu Z, Sproul A, **Wang W**, Kukekov N, and Greene LA. Siah1 Interacts with the Scaffold Protein POSH to Promote JNK Activation and Apoptosis. *Journal of Biological Chemistry* Vol. 281, Issue 1, 303-312, January 6, 2006. [[Abstract](#)][[Full text](#)][[PDF](#)]
6. Ge XC, Chen JC, **Wang WY**, Cao KM, Sun CR. [Construction of the mutants of rice nonspecific lipid transfer protein and expression comparison in two kinds of thioredoxin fusion expression vectors]. *Sheng Wu Gong Cheng Xue Bao* 18(2): 167-71, 2002. Chinese [[Abstract](#)]

Proceedings

7. **Wang W**, Carvalho B, Miller N, Pevsner J, Chakaravarti A and Irizarry RA. Estimating Genome-wide Copy Number using Allele Specific Mixture Models. *Lecture Notes in Bioinformatics (Springer Verlag), RECOMB2007*. To appear [[Extended abstract](#)].

Articles nearing completion (available upon request)

8. **Wang W**, Niendorf KB, Patel D, Marroni F, Parmigiani G and Tsao H. Predicting Germline p16 Mutational Status within Melanoma Families using MELAPRO.
9. **Wang W**, Klein AP, Caffo B and Parmigiani G. Validating risk prediction models using family registries.

PRESENTATIONS

Oral Presentations

1. Klein AP, **Wang W**, Chen S and Parmigiani G. Development and validation of a risk prediction model for pancreatic cancer: PANCPRO. *The 14th annual meeting of the International Genetic Epidemiology Society*. 2005. 10

Posters

2. **Wang W**, Niendorf KB, Patel D, Marroni F, Parmigiani G, Tsao H. Prediction of Germline p16 Mutational Status within Melanoma Families using MELAPRO. *The 15th annual meeting of the International Genetic Epidemiology Society*. 2006. 11
3. **Wang W**, Klein AP, Chen S and Parmigiani G. PANCPRO: a Mendelian Risk Prediction Model for Pancreatic Cancer. *The 55th annual meeting of the American Society of Human Genetics*. 2005. 10
4. **Wang W**, Chen S and Parmigiani G. Mendelian Risk Prediction with Application to Colorectal Cancer. *The Joint Meeting of Chinese Society of Probability and Statistics and the Institute of Mathematical Statistics*. 2005. 7