

## CURRICULUM VITAE

**Yun Li 李蕴**

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### CONTACT INFORMATION

Work Address 1:

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<http://genetics.unc.edu/faculty/yun-li>

### WORK EXPERIENCE

Assistant Professor, Department of Genetics, Department of Biostatistics, University of North Carolina, Chapel Hill, from August 2009

### EDUCATION

Ph.D. in Biostatistics, achieved in August 2009 GPA: 4.20 / 4.0  
Advisors: Gonçalo R. Abecasis and Michael Boehnke  
Dissertation: *In Silico* Haplotyping, Genotyping and Analysis of Resequencing Data  
Using Markov Models  
UNIVERSITY OF MICHIGAN, ANN ARBOR, MICHIGAN

M.S. in Applied Statistics, achieved in May 2004 GPA: 3.88 / 4.0  
M.A. in Communication Studies, achieved in August 2002  
BOWLING GREEN STATE UNIVERSITY, BOWLING GREEN, OHIO

B.S. in English (Finance and Business), achieved in July 2001 GPA: 87.1 / 100  
Second B.S. Degree in Computer & Application, achieved in July 2001  
SHANGHAI JIAO TONG UNIVERSITY, SHANGHAI, CHINA

## HONORS AND AWARDS

### PROFESSIONAL SOCIETIES

- 2008: 2008 ASHG Trainee Award in Predoctoral Basic
- 2007: March of Dimes Scholarship on Medical and Experimental Mammalian Genetics
- 2004: Ronald Benton Scholarship, Toledo Section, American Society for Quality
- 2003: Wray Jackson Smith Scholarship, American Statistical Association

### UNIVERSITY OF MICHIGAN, ANN ARBOR, MICHIGAN

- 2008-2009: Rackham Predoctoral Fellowship
- 2008: Rackham One-Term Dissertation Fellowship
- 2007: Rackham Travel Grant
- 2006: Rackham Travel Grant
- 2005: Best Performance on Qualifying Examination, Department of Biostatistics

### BOWLING GREEN STATE UNIVERSITY, BOWLING GREEN, OHIO

- 2004: Robert A. Patton Book Scholarship, Department of Applied Statistics
- 2004: CSSA 2003 Academic Award, Chinese Students and Scholars Association

### SHANGHAI JIAO TONG UNIVERSITY, SHANGHAI, CHINA

- 2001: Honorable Graduate of Shanghai, China
- 1997 - 2001: Annual Academic Scholarship for Outstanding Academic Records
- 1998 - 1999: Harler Scholarship for Excellent Performance in German Language Studies
- 1998: Outstanding Student of Shanghai Jiao Tong University
- 1997 - 1998: Yan Kuanhu Fund Scholarship for Excellent Performance
- 1997 - 1998: Scholarship of the Metrobank Foundation

## PROFESSIONAL MEMBERSHIPS

- 2007 - present: American Association for the Advancement of Science
- 2005 - present: American Society of Human Genetics
- 2003 - 2005: American Society for Quality
- 2002 - present: American Statistical Association

## PUBLICATIONS

1. Dupuis J *et al.* (2009) Novel genetic loci implicated in fasting glucose homeostasis and their impact on type 2 diabetes risk. *Nature Genetics. in press.*
2. Chambers JC, Zhang W, Lord GM, Lightstone L, Eggermann T, Schlieper G, van der Harst P, Abecasis GR, Ahmadi KR, Bakker SJ, Bilo HJG, Caulfield MJ, Cotlarciuc I, Hypponen E, Jarvelin MR, Lawlor DA, Li Y, Loos RLF, Munroe PB, Parsa A, Sanna S, Seelen MAJ, Sehmi JS, Tanaka T, Vollenweider P, Waeber G, Wareham NJ, Mooser V, Scott J, Navis G, Elliott P, Kooner JS (2009) Genetic loci influencing serum creatinine, chronic kidney disease and end-stage renal disease in man. *submitted.*
3. Chambers JC, Zhang W, Li Y, Sehmi J, Wass MN, Zabaneh D, Hoggart C, Bayele H, McCarthy MI, Peltonen L, Freimer NB, Srai SK, Maxwell PH, Sternberg MJE, Ruukonen A, Abecasis G, Jarvelin MR, Scott J, Elliott P, Kooner JS. (2009) Genome-wide

association study identifies variants in *TMPRSS6* associated with hemoglobin levels. *Nature Genetics*. 41(11): 1170-1172.

4. Li Y, Willer CJ, Sanna S, Abecasis GR (2009) Genotype imputation. *Annual Review Genomics and Human Genetics* 10: 387-406.
5. Zheng J, Li Y, Abecasis GR, Scheet P (2009) A Comparison of approaches to account for uncertainty in analysis of imputed genotypes. *submitted*.
6. Li Y, Willer CJ, Ding J, Scheet P, Abecasis GR (2007) Markov model for rapid haplotyping and genotype imputation in genome wide studies. *in press*.
7. Huang L, Li Y, Singleton AB, Hardy JA, Abecasis GR, Rosenberg NA, Scheet P (2009) Genotype imputation accuracy across worldwide human populations. *American Journal of Human Genetics*. 84(2): 235-250.
8. Nair RP, Duffin KC, Helms C, Ding J, Stuard PE, Goldgar D, Gudjonsson JE, Li Y, Tejasvi T, Feng BJ, Ruether A, Schreiber S, Weichenthal M, Gladman D, Rahman P, Schrodri SJ, Prahalad S, Guthery SL, Fischer J, Liao W, Kwok P, Menter A, Lathrop GM, Wise C, Begovich AB, Voorhees JJ, Elder JT, Krueger GG, Bowcock AM, Abecasis GR (2009) Genome-wide scan reveals association of psoriasis with IL-23 and NF- $\kappa$ B pathways. *Nature Genetics* 41(2): 199-204.
9. Kathiresan S, Willer CJ, Peloso G, Demissie S, Musunuru K, Schadt E, Kaplan L, Bennett D, Li Y, Tanaka T, Voight BF, Bonnycastle LL, Jackson AU, Crawford G, Surti A, Guiducci C, Burt N, Parish S, Clarke R, Zelenika D, Kubalanza KA, Morken MA, Scott LJ, Stringham HM, Galan P, Swift AJ, Kuusisto J, Bergman RN, Sundvall J, Laakso M, Ferrucci L, Scheet P, Sanna S, Uda M, Yang Q, Lunetta K, Dupuis J, deBakker PI, O'Donnell CJ, Chambers JC, Kooner JS, Hercberg S, Meneton P, Lakatta EG, Scuteri A, Schlessinger D, Tuomilehto J, Collins FS, Groop L, Altshuler D, Collins R, Lathrop GM, Melander O, Salomaa V, Peltonen L, Orho-Melander M, Ordovas JM, Boehnke M, Abecasis GR, Mohlke KL, Cupples LA (2009) Common variants at 30 loci contribute to polygenic dyslipidemia. *Nature Genetics* 41(1): 56-65.
10. Gaulton KJ, Willer CJ, Li Y, Scott LJ, Conneely KN, Jackson AU, Duren WL, Chines PS, Narisu N, Bonnycastle LL, Luo J, Tong M, Sprau AG, Pugh EW, Doheny KF, Valle TT, Abecasis GR, Tuomilehto J, Bergman RN, Collins FS, Boehnke M, Mohlke KL (2008) Comprehensive association study of type 2 diabetes and related quantitative traits with 222 candidate genes. *Diabetes* 57(11):3136-3144.
11. Chambers JC, Elliott P, Zabaneh D, Zhang W, Li Y, Froguel P, Balding D, Scott J, Kooner JS (2008) Common genetic variation near the melanocortin-4 receptor gene is associated with waist circumference and insulin resistance. *Nature Genetics* 40(6):716-718.
12. Zeggini E, Scott LJ, Saxena R, Voight BF, Marchini JL, Hu T, de Bakker PI, Abecasis GR, Almgren P, Andersen G, Ardlie K, Boström KB, Bergman RN, Bonnycastle LL, Borch-Johnsen K, Burt NP, Chen H, Chines PS, Daly MJ, Deodhar P, Ding CJ, Doney

AS, Duren WL, Elliott KS, Erdos MR, Frayling TM, Freathy RM, Gianniny L, Grallert H, Grarup N, Groves CJ, Guiducci C, Hansen T, Herder C, Hitman GA, Hughes TE, Isomaa B, Jackson AU, Jørgensen T, Kong A, Kubalanza K, Kuruville FG, Kuusisto J, Langenberg C, Lango H, Lauritzen T, Li Y, Lindgren CM, Lyssenko V, Marvelle AF, Meisinger C, Midthjell K, Mohlke KL, Morcken MA, Morris AD, Narisu N, Nilsson P, Owen KR, Palmer CN, Payne F, Perry JR, Pettersen E, Platou C, Prokopenko I, Qi L, Qin L, Rayner NW, Rees M, Roix JJ, Sandbæk A, Shields B, Sjögren M, Steinthorsdottir V, Stringham HM, Swift AJ, Thorleifsson G, Thorsteinsdottir U, Timpson NJ, Tuomi T, Tuomilehto J, Walker M, Watanabe RM, Weedon MN, Willer CJ; Wellcome Trust Case Control Consortium, Illig T, Hveem K, Hu FB, Laakso M, Stefansson K, Pedersen O, Wareham NJ, Barroso I, Hattersley AT, Collins FS, Groop L, McCarthy MI, Boehnke M, Altshuler D (2008) Meta-analysis of genome-wide association data and large-scale replication identifies additional susceptibility loci for type 2 diabetes. *Nature Genetics* 40(5):638-645.

13. Willer CJ, Sanna S, Jackson AU, Scuteri A, Bonnycastle LL, Clarke R, Heath SC, Timpson NJ, Najjar SS, Stringham HM, Strait J, Duren WL, Maschio A, Busonero F, Mulas A, Albai G, Swift AJ, Morcken MA, Narisu N, Bennett D, Parish S, Shen H, Galan P, Meneton P, Hercberg S, Zelenika D, Chen W, Li Y, Scott LJ, Scheet P, Sundvall J, Watanabe RM, Nagaraja R, Ebrahim S, Lawlor DA, Ben-Shlomo Y, Davey-Smith G, Shuldiner AR, Collins R, Bergman RN, Uda M, Tuomilehto J, Cao A, Collins FS, Lakatta E, Lathrop GM, Boehnke M, Schlessinger D, Mohlke KL, Abecasis GR (2008) Newly identified loci that influence lipid concentrations and risk of coronary artery disease. *Nature Genetics* 40(2):161-169.
14. The International HapMap Consortium (2007) A second generation human haplotype map of over 3.1 million SNPs. *Nature* 449(7164):851-861.
15. Scott JL, Mohlke KL, Bonnycastle LL, Willer CJ, Li Y, Duren WL, Erdos MR, Stringham HM, Chines PS, Jackson AU, Prokunina-Olsson L, Ding CJ, Swift AJ, Narisu N, Hu T, Pruim R, Xiao R, Li XY, Conneely KN, Riebow NL, Sprau AG, Tong M, White PP, Hetrick KN, Barnhart MW, Bark CW, Goldstein JL, Watkins L, Xiang F, Saramies J, Buchanan TA, Watanabe RM, Valle TT, Kinnunen L, Abecasis GR, Pugh EW, Doheny KF, Bergman RN, Tuomilehto J, Collins FS, Boehnke M (2007) A genome-wide association study of type 2 diabetes in Finns detects multiple susceptibility variants. *Science* 316(5829):1341-1345.
16. Li M, Atmaca-Sonmez P, Othman M, Branham KE, Khanna R, Wade MS, Li Y, Liang L, Zarepari S, Swaroop A and Abecasis GR (2006) CFH haplotypes without the Y402H coding variant show strong association with susceptibility to age-related macular degeneration. *Nature Genetics* 38(9):1049-1054.

### **INVITED REVIEW PAPERS (In Preparation)**

On sequencing based gene mapping for Nature Review Genetics

## INVITED PRESENTATIONS

2009 Genetics, University of North Carolina  
2009 Lady Davis Institute of Medical Research, Department of Epidemiology, Biostatistics and Occupational Research, McGill University  
2009 School of Public Health, Yale University  
2009 Biostatistics, University of North Carolina  
2009 Genetics and Genomic Sciences, Mount Sinai School of Medicine, New York  
2007 McKusick-Nathans Institute of Genetic Medicine, Johns Hopkins University  
2007 Pharmacogenetics, GlaxoSmithKline  
2007 ICSA (International Chinese Statistical Association) Symposium

## CONFERENCE PRESENTATIONS

1. **Li Y** and Abecasis GR (2009) Taking Advantage of Distant Relatedness: Genotype Imputation in the Resequencing Era. *Am J Hum Genet* S82: 241.
2. Lange LA, Marvelle AF, Croteau-Chonka D, Kuzawa C, McDade TW, **Li Y**, Levy S, Daniels M, Borja J, Lange EM, Adair LS and Mohlke K (2009) Genome-wide association study of homocysteine levels in Filipinos identifies a new locus (CPS1) and evidence for a stronger MTHFR effect in young adults than in their mothers. *Am J Hum Genet* S82: 255.
3. Li B, **Li Y**, Sanna S, Schlessinger D, Najjar S, Scuteri A, Lakkata E, Boehnke M, Abecasis GR and Uda M for Sardinian Project (2009) Fine mapping of common and rare variants associated with low-density lipoprotein cholesterol (LDL-C) via sequencing candidate loci following genome-wide scans. *Am J Hum Genet* S82: 1904.
4. Zheng J, **Li Y**, Abecasis GR, and Scheet P (2008) A Comparison of Approaches to Account for Uncertainty in Analysis of Imputed Genotypes. *Am J Hum Genet* S81: 2387.
5. Huang L, **Li Y**, Singleton AB, Hardy JA, Abecasis GR, Rosenberg NA, and Scheet P (2008) Genotype Imputation Accuracy Across World Human Populations. *Am J Hum Genet* S81: 64.
6. Arnold S, Guy M, Kashuk K, **Li Y**, Abecasis GR, and Chakravarti A (2008) Semaphorins as Candidate Genes in Hirschsprung Disease. *Am J Hum Genet* S81: 192.
7. Xiang F, Scott LJ, **Li Y**, Jackson AU, Willer CJ, *et al.* (2008) Genome-wide Association for Insulin Resistance and Secretion in 542 Genotyped and Imputed Individuals. *Am J Hum Genet* S81: 2130.
8. Chen W, **Li Y**, and Abecasis GR (2008) State Space Reduction in Hidden Markov Model for Haplotyping, Imputation and Analysis of Shotgun Sequence Data. *Am J Hum Genet* S81: 2342.
9. **Li Y** and Abecasis GR (2008) Efficient Reconstruction of Whole Genomes Using Massively Parallel Shotgun Sequence Data. *Am J Hum Genet* S81: 204.
10. **Li Y**, Willer CJ, Ding J, Scheet P, and Abecasis GR (2008) Rapid Genotype Imputation and Analysis of Resequencing Data Using Markov Models. JSM in Denver.
11. Sanna S, Jackson AU, Usala G, Willer CJ, Dei M, Bonnycastle LL, Lai S, **Li Y**, *et al.* (2007) Genome-wide Association Scan for Height in 6,671 Individuals from Finland and Sardinia. *Am J Hum Genet* S80:2167.
12. **Li Y**, Willer CJ, Ding J, Scheet P, and Abecasis GR (2007) *In silico* Genotyping for Genome-wide Association Studies. *Am J Hum Genet* S80:2071.

13. Absher D, Li J, Thompson RC, Burmeister M, Scott LJ, Li Y, *et al.* (2006) An Association Study of Ninety-three Candidate Genes in Bipolar Disorder. *Am J Hum Genet* 79:2080.
14. Gaulton KJ, Conneely KN, Li Y, *et al.* (2006) Testing for Association between Type 2 Diabetes and 225 Candidate Genes in 2357 Finnish Cases and Controls. *Am J Hum Genet* 79:1634.
15. Li Y and Abecasis GR (2006) Mach 1.0: Rapid Haplotype Reconstruction and Missing Genotype Inference. *Am J Hum Genet* 79:2290.

## TEACHING AND RESEARCH EXPERIENCE

### UNIVERSITY OF MICHIGAN, ANN ARBOR, MICHIGAN

Fall 2008: Instructor for Biostat605 (Introduction to SAS)

Jun 2004 - present: Graduate Student Research Assistant, Department of Biostatistics

### BOWLING GREEN STATE UNIVERSITY, BOWLING GREEN, OHIO

Aug 2002 - May 2004: Graduate Assistant for

the Director of the Center for Policy Analysis and Public Service

May 2003 - Aug 2003: Graduate Consultant at Statistical Consulting Center

Aug 2001 - May 2002: Instructor for IPC (Inter-Personal Communication) 102

### SHANGHAI JIAO TONG UNIVERSITY, SHANGHAI, CHINA

Feb - Jun 2001: Internship for Graduate Design in Computer Science

May - Jun 2001: Teaching Intern in College English Courses for Non-English Majors

2000 - 2001: Tutor for Written and Oral English

## SERVICE AND ACTIVITIES

### MANUSCRIPT REVIEWER for

*Bioinformatics*

*European Journal of Human Genetics*

*Genome Research*

*Human Heredity*

*PLoS Genetics*

*PLoS ONE*

*The Journal of Bioinformatics and Computational Biology*

### UNIVERSITY OF MICHIGAN, ANN ARBOR, MICHIGAN

2008: Biostatistics Representative, WIDTH Symposium Planning Committee

2007 - 2009: Student representative for the 2007-08 Graduate Student Forum

2005 - 2009: Student Mentor, Department of Biostatistics

2005 - 2006: Student Representative, Department of Biostatistics Open House

### BOWLING GREEN STATE UNIVERSITY, BOWLING GREEN, OHIO

2002: Public Campaign Leader, Center for International Programs

2001 - 2002: Volunteer, Health Center

**SHANGHAI JIAO TONG UNIVERSITY, SHANGHAI, CHINA**

1998 - 1999: Editor and Journalist for University-Wide English Newspaper Channel

1997 - 1999: Associate President for English Club

1997 - 1999: Chief Organizer for University-wide Weekly Event: English Corner

**COMPUTER SKILLS**

Proficient in Statistical Packages including SAS, Minitab, SPSS, Matlab, R, S+

Proficient with C, C++, and Perl Programming

Experience in Database Management, Interface Design, and Web design

Familiar with JAVA language and Graphic Design Software

**LANGUAGES**

English: Level Eight (highest) in the Test for English Majors  
TOEFL 660; GRE 2300; GMAT 720

Chinese: Native Language

Japanese: Level One (highest) in International Japanese-Language Proficiency Test

German: One-year training

## REFERENCES

Gonçalo R. Abecasis, Ph.D.  
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Ann Arbor, Michigan 48109-2029  
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Michael L. Boehnke, Ph.D.  
Richard G. Cornell Distinguished University Professor of Biostatistics  
M4108 SPH II  
1420 Washington Heights  
Ann Arbor, Michigan 48109-2029  
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Roderick J.A. Little, Ph.D.  
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