



郭炤裕

電話 +886-2-28267945

傳真 +886-2-28221942

電子信箱 CYGUO@YM.EDU.TW

學歷

畢／肄業學校	國別	主修學門系所	學位	起訖年月
美國波士頓大學	美國	生物統計學	博士	2000/09至2004/05
國立台灣大學	台灣	流行病學所生物統計組	碩士	1998/09至2000/06
國立政治大學	台灣	應用數學系	學士	1993/09至1998/06

經歷

服務機關	服務部門／系所	職稱	起訖年月
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現職：

國立陽明大學醫學院	公共衛生研究所	助理教授	2011/08起
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經歷：

成功大學醫學院	環境醫學研究所	助理教授	2010/09至2011/07
波士頓兒童醫院	臨床試驗部門	資深生統分析師	2007/06至2010/09
美國哈佛大學醫學院	小兒科	助理教授	2008/01至2010/09
美國波士頓大學	數學與統計系	研究助理教授	2004/05至2007/05

專長及研究領域

1.統計遺傳學 2.臨床試驗 3.生物統計 4.流行病學

期刊論文(2007-2011)

1. **Guo CY (Corresp. author)**, Lunetta KL, DeStefano AL, Ordovas JM, Cupples LA. Informative Transmission Disequilibrium Test (i-TDT): Combined Linkage and Association Mapping That Includes Unaffected Offspring As Well As Affected Offspring. *Genet Epidemiol.* 2007 Feb;31(2):115-133.
2. Newton-Cheh C, **Guo CY**, Gona P, Larson MG, Benjamin EJ, Wang TJ, Kathiresan S, O'Donnell CJ, Musone S, Camargo A, Drake J, Levy D, Hirschhorn J, Vasani RS. Clinical and Genetic Correlates of Aldosterone to Renin Ratio and Relations to Blood Pressure Progression in a Community Sample. *Hypertension.* 2007 Apr;49(4):846-856.
3. Mitchell GF, **Guo CY**, Benjamin EJ, Larson MG, Keyes MJ, Vita JA, Vasani RS, Levy D. Cross-sectional Correlates of Increased Aortic Stiffness in the Community: The Framingham Heart Study. *Circulation.* 2007 May;115(20):2628-2636.
4. Mitchell GF, **Guo CY**, Kathiresan S, Vasani RS, Larson MG, Vita JA, Keyes MJ, Vyas M, Newton-Cheh C, Musone SL, Lochner LA, Drake JA, Levy D, O'Donnell CJ, Hirschhorn JN, Benjamin EJ. Relations between Vascular Stiffness and Common Genetic Variation at the Endothelial Nitric Oxide Synthase (*NOS3*) Locus in the Community: The Framingham Heart Study. *Hypertension.* 2007 Jun;49(6):1285-1290.
5. Thakore AH, **Guo CY**, Larson MG, Corey D, Wang TJ, Vasani RS, D'Agostino RB, Lipinska I, Keaney JF, Benjamin EJ, O'Donnell CJ. Association of Multiple Inflammatory Markers with Carotid Intimal Medial Thickness and Stenosis: The Framingham Heart Study. *Am J Cardiol.* 2007 Jun;99(11):1598-1602.
6. Wang TJ, Larson MG, Benjamin EJ, Siwik DA, Safa R, **Guo CY**, Corey D, Sundstrom J, Levy D, Sawyer DB, Colucci WS, Vasani RS. Clinical and Echocardiographic Correlates of Plasma Pro-collagen Type III Amino-terminal Peptide Levels in the Community. *Am Heart J.* 2007 Aug;154(2):291-297.
7. **Guo CY (Corresp. author)**, Cupples LA, Yang Q. Testing informative missingness in genetic studies using case-parent triads. *Eur J Hum Genet.* 2008 Aug;16(8):992-1001.

8. Newton-Cheh C, **Guo CY**, Larson MG, Musone SL, Aarti Surti A, Camargo AL, Drake JA, Benjamin EJ, Levy D, D'Agostino RB, Hirschhorn JN, O'Donnell CJ. Common genetic variation in KCNH2 is associated with QT interval duration: The Framingham Heart Study. *Circulation*. 2007 Sep;116(10):1128-1136.
9. Cupples LA, Arruda HT, Benjamin EJ, D'Agostino RB Sr, Demissie S, Destefano AL, Dupuis J, Falls KM, Fox CS, Gottlieb DJ, Govindaraju DR, **Guo CY**, Heard-Costa NL, Hwang SJ, Kathiresan S, Kiel DP, Laramie JM, Larson MG, Levy D, Liu CY, Lunetta KL, Mailman MD, Manning AK, Meigs JB, Murabito JM, Newton-Cheh C, O'connor GT, O'donnell CJ, Pandey M, Seshadri S, Vasani RS, Wang ZY, Wilk JB, Wolf PA, Yang Q, Atwood LD. The Framingham Heart Study 100K SNP genome-wide association study resource: overview of 17 phenotype working group reports. *BMC Med Genet*. 2007 Sep;8(Suppl 1):S1.
10. Lunetta KL, D'Agostino RB Sr, Karasik D, Benjamin EJ, **Guo CY**, Govindaraju R, Kiel DP, Kelly-Hayes M, Massaro JM, Pencina MJ, Seshadri S, Murabito JM. Genetic correlates of longevity and selected age-related phenotypes: a genome-wide association study in the Framingham Study. *BMC Med Genet*. 2007 Sep;8(Suppl 1):S13.
11. Larson MG, Atwood LD, Benjamin EJ, Cupples LA, D'Agostino RB Sr, Fox CS, Govindaraju DR, **Guo CY**, Heard-Costa NL, Hwang SJ, Murabito JM, Newton-Cheh C, O'Donnell CJ, Seshadri S, Vasani RS, Wang TJ, Wolf PA, Levy D. Framingham Heart Study 100K project: genome-wide associations for cardiovascular disease outcomes. *BMC Med Genet*. 2007 Sep;8(Suppl 1):S5.
12. Newton-Cheh C, **Guo CY**, Wang TJ, O'donnell CJ, Levy D, Larson MG. Genome-wide association study of electrocardiographic and heart rate variability traits: the Framingham Heart Study. *BMC Med Genet*. 2007 Sep;8(Suppl 1):S7.
13. Levitzky YS, **Guo CY**, Rong J, Larson MG, Walter RE, Keaney JF, Sutherland PA, Vasani A; Lipinska I, Evans JC, Benjamin EJ. Relation of Smoking Status to a Panel of Inflammatory Markers: The Framingham Offspring. *Atherosclerosis*. 2008 Nov;201(1):217-224.

14. **Guo CY (Corresp. author)**. Validity of the Transmission/Disequilibrium Test (TDT) under impact of complex informative missingness. *BMC Proceedings* 2007 Dec, 1(Suppl 1):S26
15. Chen MH, Cui J, **Guo CY**, Cupples LA, Eerdewegh PV, Dupuis J, Yang Q. Joint linkage and association methods to identify SNPs explaining linkage evidence using affected sib pair data. *BMC Proceedings* 2007 Dec, 1(Suppl 1):S38
16. Parikh NI, Hwang SJ, Yang Q, Larson MG, **Guo CY**, Robins SJ, Sutherland P, Benjamin EJ, Levy D, Fox CS. Clinical Correlates and Heritability of Cystatin C (from the Framingham Offspring Study). *Am J Cardiol*. 2008 Nov 1;102(9):1194-1198.
17. **Guo CY (Corresp. author)**, Lunetta KL, DeStefano AL, Cupples LA. Combined Haplotype Relative Risk (CHRR): A general and simple genetic association test that combines trios and unrelated case-controls. *Genet Epidemiol*. 2009 Jan;33(1):54-62.
18. Murabito JM, Keyes MJ, **Guo CY**, Keaney JF Jr, Vasan RS, D'Agostino RB Sr, Benjamin EJ. Cross-sectional relations of multiple inflammatory biomarkers to peripheral arterial disease: The Framingham Offspring Study. *Atherosclerosis*. 2009 Apr;203(2):509-514
19. Briggs CE*, **Guo CY*** (co-first authors*), Schoettler C, Rosoklija I, Silva A, Bauer SB, Retik AB, Kunkel L, Nguyen HT. A genome scan in affected sib-pairs with familial vesicoureteral reflux identifies a locus on chromosome 5. *Eur J Hum Genet*. 2010 Feb;18(2):245-250.
20. Degrazia M, **Guo CY**, Wilkinson A, Rhein L. Weight and age as predictors for passing the infant car seat challenge. *Pediatrics*. 2010 Mar;125(3):526-531.
21. Clune JE, Greene AK, **Guo CY**, Gao LL, Kim S, Meara JG, Proctor MR, Mulliken JB, Rogers GF. Perioperative Corticosteroid Reduces Hospital Stay After Fronto-Orbital Advancement. *J Craniofac Surg*. 2010 Mar;21(2):344-348
22. Chen MH, Larson MG, Hsu YH, Peloso GM, **Guo CY**, Fox CS, Atwood LD, Yang Q. A three-stage approach for genome-wide association studies with family data for quantitative traits. *BMC Genet*. 2010 May 14;11:40.

23. Qiong Y, Wu HS, **Guo CY**, Fox CS. Analyze Multivariate Phenotypes in Genetic Association Studies by Combining Univariate Association Tests. *Genet Epidemiol.* 2010 Jul;34(5):444-454.
24. Upadhyay A, Larson MG, **Guo CY**, Vasani RS, Lipinska I, O'Donnell CJ, Kathiresan S, Meigs JB, Keane JF Jr, Rong J, Benjamin EJ, Fox CS. Inflammation, Kidney Function and Albuminuria in the Framingham Offspring Cohort. 2011 Mar;26(3):920-6. Epub 2010 Aug 3.
25. Porter SC, **Guo CY**, Bacic J, Chan E. Health literacy and task environment influence parents' burden for data entry on child-specific health information: randomized controlled trial. *J Med Internet Res.* 2011 Jan 26;13(1):e13.
26. Fujii AM, Patel SM, Allen R, Doros G, **Guo CY** and Testa S. Proactant alfa and beractant treatment of very premature infants with respiratory distress syndrome. *J Perinatol.* 2011 Aug 11. doi: 10.1038/jp.2011.99. [Epub ahead of print]
27. Waisbren SE, Potter NL, Gordon CM, Green RC, Greenstein P, Gubbels CS, Rubio-Gozalbo E, Schomer D, Welt C, Anastasoae V, D'Anna K, Gentile J, **Guo CY**, Hecht L, Jackson R, Jansma BM, Li Y, Lip V, Miller DT, Murray M, Power L, Quinn N, Rohr F, Shen Y, Skinder-Meredith A, Timmers I, Tunick R, Wessel A, Wu BL, Levy H, Elsas L, Berry GT. The adult galactosemic phenotype. *J Inherit Metab Dis.* 2011 Jul 21. [Epub ahead of print]

研究計畫 (至少五年內)

Current Research Support:

Assessing Gene by Gene and Gene by Environment Interactions Using Both Case-Parent Trios and Unrelated Case-Controls

National Science Council ID: 100-2314-B-006-051-MY2

2011/08/01~2013/07/31

Past Research Support

Detecting Informative Missingness in Genetic Studies using case-parent trios

and incomplete date

National Science Council ID: 99-2314-B-006-053-

2010/11/01~2011/07/31

Health Literacy and Information Management in ADHD: Designing an Optimal Record

R01 LM009256-01 (Porter)

09/01/06-08/31/10

NIH/NLM

The aim of the project is to develop and evaluate an electronic data entry tool that enables parents to communicate data essential to treatment of their children, regardless of their own literacy skills. This work addresses two health information technology goals of the Department of Health and Human Services, connectivity that provides clinicians with up-to-date patient data and the promotion of patient involvement in care. Findings will provide a usable and useful technology product that overcomes literacy related barriers and thereby improves care for the most common pediatric mental health disorder.

Role: Statistician

Genetic Epidemiology of Fatal and Life-Threatening Influenza in Children and Young Adults

200-2002-00732 (Randolph)

10/01/08 – 9/30/10

America's Health Insurance Plans / CDC

The major goal of this project is to identify genes underlying disease susceptibility and severity in children and young adults with life-threatening and fatal influenza infection.

Role: Biostatistician

Genetic Epidemiology of Life-Threatening Influenza Infection in Children

1R56AI084011-01 (Randolph)

09/17/09 – 08/31/10

NIH/ NIAID

The goal is to identify the inflammatory role of the innate immune response, including genes influencing innate immunity, on disease susceptibility and outcome for children and young adults with life-threatening and fatal influenza infection.

Role: Biostatistician

Harvard Clinical and Translational Science Center (CTSC)

UL1 RR025758 (Nadler)

05/19/08-04/30/13

NIH/NCRR

A university-wide infrastructure designed to provide education, information, resources, and tools promoting innovative, collaborative, and cross-institutional clinical and translational research.

Role: Biostatistician

指導學生情況

2007 Michael Scott Aswell

Thesis topic: Enhanced Normalization of Emergency Department Chief Complaints

Boston University School of Medicine

2007 Sharon S Choi

Thesis topic: Extending a Laboratory Information System For Specimen Tracking: From Peru to Lesotho

Boston University School of Medicine

2008 Johanna B Lee

Thesis topic: An analytical comparison of two studies of first-trimester use of selective serotonin-reuptake inhibitors and birth defects

Boston University School of Medicine

Ph.D Dissertation Committee

2009 Hongsheng Wu

Advisor: Dr. Qiong Yang

Second Reader: Dr. Chao-Yu Guo

Thesis topic: Methods for Genetic Association Analysis of Longitudinal and Multivariate Phenotypes in Families

Boston University Department of Biostatistics