



**Yen-Feng Chiu, PhD
Investigator**

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Education

Ph.D. in Biostatistics
Johns Hopkins University, USA

Professional Experiences

Investigator January, 2012 – Present
Institute of Population Health Sciences
National Health Research Institutes, Taiwan

Joint Professor September, 2013 –Present
Graduate Institute of Biostatistics
China Medical University, Taiwan

Joint Professor September, 2013 – July, 2017
Graduate Institute of Statistics
National Chiao Tung University, Taiwan

Associate Investigator November, 2006 – December, 2011
Division of Biostatistics and Bioinformatics
National Health Research Institutes, Taiwan

Adjunct Associate Professor January, 2007 – July, 2009
Institute of Statistics
National Chiao Tung University, Taiwan

Adjunct Assistant Professor August, 2006 – December, 2006
Institute of Statistics
National Chiao Tung University, Taiwan

Assistant Investigator November, 2002 – November, 2006
National Health Research Institutes, Taiwan

Research Assistant Professor August, 2000 – October, 2002
Department of Biostatistics
University of North Carolina at Chapel Hill, USA

Postdoctoral Fellow October, 1999 – July, 2000
Department of Biostatistics
Johns Hopkins University, USA

Research Interests

Statistical Genetics, Genetic Epidemiology, Biostatistics, Clinical Trials,
Longitudinal Data Analysis, Big Data Analysis, Machine Learning
Approaches

Research Activities & Accomplishment

Dr. Chiu's research lies in statistical genetics, genetic epidemiology, and statistical applications to a wide range of medical, biomedical and public health projects. She has developed machine learning and statistical methods to identify common and rare variants, gene-gene and gene-environment interactions associated with complex disease, for population- and family-based designs. Recently, her research focuses on developing statistical framework and computing tools to combine multiple genetic epidemiological studies with different designs on rare variant analysis. In addition, for disease prevention and control, she has been dedicating herself to a variety of observational and clinical studies to investigate how lifestyle, environmental and genetic factors influence human health. Due to the close links between diets, health and climate change, she has also been studying the health impact of plant-based diets among Taiwanese.

Selected Publications

- Tseng HY, Löckenhoff C, Lee CY, Yu SH, Wu IC, Chang HY, **Chiu YF***, Hsiung CA*, The paradox of aging and health-related quality of life in Asian Chinese: results from the Healthy Aging Longitudinal Study in Taiwan. *BMC Geriatrics* volume 20, Article number: 91. 2020.
- Clark DW, ... **Chiu YF**, ... Wilson JF. Associations of autozygosity with a broad range of human phenotypes, *Nature Communication*. 2019.
- Chien LC and **Chiu YF***. General retrospective mega-analysis framework for rare variant association tests. *Genetic Epidemiology*. 2018 Oct;42(7):621-635.
- Yu JC, Hsu FC and **Chiu YF***, Assessment of drug-methylation interactions on triglycerides using longitudinal family data. *BMC Proc*. 2018; 12(Suppl 9): 48.
- Chang YC, Hee SW, Lee WJ, Li HY, Chang TJ, Lin MW, Hung YJ, Lee IT, Hung KY, Assimes T, Knowles JW, Nong JY, Lee PC, **Chiu YF***, Chuang LM. A genome-wide scan for circulating vascular adhesion protein-1 (VAP-1) levels: *MACROD2* as a potential transcriptional regulator of adipogenesis. *Journal of Diabetes Investigation*. 2018. Available at <http://rdcu.be/HSTz>.
- Wang WC, **Chiu YF**, Chung RH, Hwu CM, Lee IT, Lee CH, Chang YC, Hung KY, Quertermous T, Chen YD I, Hsiung CA. *IGF1* Gene is associated with triglyceride levels in subjects with family history of hypertension from the SAPPHIRe and TWB Projects. *International Journal of Medical Sciences* 2018; 15(11): 1035-1042. doi: 10.7150/ijms.25742.
- Hsieh TJ, Chang HY, Wu IC, Chen CC, Tsai HJ, **Chiu YF**, Chuang SC, Hsiung CA, Hsu CC*. Independent association between subjective cognitive decline and frailty in the elderly. *PLoS One*. 2018 <https://doi.org/10.1371/journal.pone.0201351>.
- Ko KT, Yu SH, Lee CY, Tseng HY, **Chiu YF***, Hsiung CA*. Moderating effect of

depression on the association between pain and activities of daily living in older adults. *Psychogeriatrics*. 2018 Jul 10. doi: 10.1111/psyg.12332. [Epub ahead of print].

Tseng HY, Yu SH, Lee CY, WH Huang, SL Huang, Wu CS, **Chiu YF***, Hsiung CA*. Sedative-hypnotic drug use among community-dwelling elderly in Taiwan. *International Psychogeriatrics*. 2018 Mar 21:1-9. [Epub ahead of print].

Hsieh TJ, Chang HY, Wu IC, Chen CC, Tsai HJ, **Chiu YF**, Chuang SC, Hsiung CA, Hsu CC*. Independent association between subjective cognitive decline and frailty in the elderly. *PLoS One*. 2018 <https://doi.org/10.1371/journal.pone.0201351>.

Hsu CC, Chang HY, Wu IC, Chen CC, Tsai HJ, **Chiu YF**, Chuang SC, Hsiung WC, Tsai TL, Liaw WJ, Lin IC, Shen SC, Juan CC, Lien LM, Lee M, Chen YI, Liu K, Hsiung CA. Cohort profile: the healthy aging longitudinal study in Taiwan (HALST). *Int J Epidemiol*. 2017 Aug 1;46(4):1106-1106j.

Chang JS, **Chiu YF**, Yu JC, Chen LT, Ch'ang JH. The role of consolidation Chemo-radiotherapy in locally advanced pancreatic cancer receiving chemotherapy: an updated systematic review and meta-analysis. *Cancer Research and Treatment*. 2017. doi: <https://doi.org/10.4143/crt.2017.105> [Epub ahead of print].

Chien LC, Bowden DW, **Chiu YF***. Region-based association tests for sequencing data on survival traits. *Genet Epidemiol* 2017 Sep;41(6):511-522.

Wu CS, Yu SH, Lee CY, Tseng HY, **Chiu YF***, Hsiung CA*. Prevalence of and risk factors for minor and major depression among community-dwelling older adults in Taiwan. *Int Psychogeriatr*. 2017 Jul; 29(7):1113-1121.

Chung RH, **Chiu YF**, Yi-Jen Hung YJ, Lee WJ, Kwan-Dun Wu KD, Hui-Ling Chen HL, Lin MW, Chen DI, Quertermous T and Hsiung CA. Genome-wide copy number variation analysis identified deletions in SFMBT1 associated with fasting plasma glucose in a Han Chinese population. *BMC Genomics*. 2017; 18: 591.

Chang JS, **Chiu YF**, Yu JC, Chen LT, Ch'ang JH. The Role of Consolidation Chemo-Radiotherapy in Locally Advanced Pancreatic Cancer Receiving Chemotherapy: An Updated Systematic Review and Meta-Analysis. *Cancer Research and Treatment*. *Cancer Research and Treatment*. June 9, 2017 doi: <https://doi.org/10.4143/crt.2017.105> [Epub ahead of print].

Hsu CC, Chang HY, Wu IC, Chen CC, Tsai HJ, **Chiu YF**, Chuang SC, Hsiung WC, Tsai TL, Liaw WJ, Lin IC, Shen SC, Juan CC, Lien LM, Lee M, Chen YI, Liu K, Hsiung CA. Cohort Profile: The Healthy Aging Longitudinal Study in Taiwan (HALST). *Int J Epidemiol*. 2017 Feb. [Epub ahead of print]

Chuang SY, Chiu HT, Lee CY, Liu TT, Tsao CK, Hsiung CA, **Chiu YF***. Vegetarian diet reduces the risk of hypertension independent of abdominal obesity and inflammation: a prospective study. *Journal of Hypertension*. 2016. Nov;34(11):2164-71.

Chang YC, **Chiu YF**, He CT, Sheu WH, Lin MW, Seto TB, Assimes T, Lee WJ, Lee PC, Tsai SH, Chuang LM. Fine mapping of genome-wide linkage signals identified variants in the RYR3 (ryanodine receptor 3) gene as quantitative trait locus for plasma adiponectin in Chinese population. *Medicine*. 2016. Nov; 95(44): p e5174.

Chiu YF*, Lee CY, Hsu FC. Multipoint Association Mapping for Longitudinal Family Data: An Application to Hypertension Phenotypes. *BMC Proceeding 2016*, 10(Suppl 7):54.

Chiu YF, Justice AE, Melton PE. Longitudinal analytical approaches to genomic data. *BMC Genetics*. 2016. 17(Suppl 2):4.

Chien LC, Hsu FC, Bowden DW, **Chiu YF***. Generalization of rare variant association tests for longitudinal family studies. *Genetic Epidemiology*. 2016. Feb;40(2):101-12.

Assimes TL, Lee IT, Juang JM, Wang TD, Kim ET, Lee WJ, Absher D, **Chiu YF**, Hsu CC, Chuang LM, Quertermous T, Hsiung CA, Rotter JI, Sheu WH, Chen YD, Taylor KD. Genetics of coronary artery disease in Taiwan: a cardiometabochip study by the Taichi consortium. *PLoS One*. 2016. Mar 16;11(3):e0138014.

Chang WT, Huang MC, Chung HF, **Chiu YF**, Chen PS, Chen FP, Lee CY, Shin SJ, Hwang SJ, Huang YF, Hsu CC. Interleukin-6 gene polymorphisms correlate with the progression of nephropathy in Chinese patients with type 2 diabetes: A prospective cohort study. *Diabetes Research and Clinical Practice*. 2016. 15-23.

Chien LC, **Chiu YF***, Liang KY, Chuang LM. Simultaneous estimation of the locations and effects of multiple disease loci in case-control studies. *Biostatistics* 2015. 16(2):222-239.

Chiu YF*, Hsu CC, Chiu HTT, Lee CY, Liu TT, Tsao CK, Chuang SC, Hsiung CA. Cross-sectional and longitudinal comparisons of metabolic profiles between vegetarian and non-vegetarian subjects: a matched cohort study. *British Journal of Nutrition*. 2015. 114(8):1313-20.

Chang TJ[†], **Chiu YF**[†], Sheu HHW, Shih KC, Hwu CM, Quertermous T, Jou YS, Kuo SS, Chang YC, Chuang LM. Genetic polymorphisms of PCSK2 are associated with glucose homeostasis and progression to type 2 diabetes in a Chinese population. *Scientific Reports*. 2015. 5:14380. doi: 10.1038/srep14380. († Co-first author)

Chiu YF*, Chung RH, Kao HY, Li CY, Hou L, Hsu FC. Identification of rare variants for hypertension with incorporation of linkage information. *BMC Proceeding*. 2014. 8(Suppl 1):S109.

Wu Y[†], Gao H[†], Li H[†], Tabara Y[†], Nakatochi M[†], **Chiu YF[†]**, Park EJ, Wen W, Adair LS, Borja JB, Cai Q, Chang YC, Chen P, Croteau-Chonka DC, Fogarty MP, Gan W, He CT, Hsiung CA, Hwu CM, Ichihara S, Igase M, Jo J, Kato N, Kawamoto R, Kuzawa CW, Lee JJ, Liu J, Lu L, McDade TW, Osawa H, Sheu WH, Teo Y, Vadlamudi S, van Dam RM, Wang Y, Xiang YB, Yamamoto K, Ye X, Young TL, Zheng W, Zhu J, Shu XO, Shin C, Jee SH, Chuang LM, Miki T, Yokota M, Lin X, Mohlke KL, Tai ES. A meta-analysis of genome-wide association studies for adiponectin levels in East Asians identifies a novel locus near WDR11-FGFR2. *Human Molecular Genetics*. 2014. Feb;1523(4):1108-19. († Co-first author)

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Fang YH, **Chiu YF***. A Novel Support Vector Machine-Based Approach for Rare Variant Detection. *PLoS ONE*. 2013. 8(8): e71114. doi:10.1371/journal.pone.0071114.

Wu IC, Chang HY, Hsu CC, **Chiu YF**, Yu SH, et al. Association between Dietary Fiber Intake and Physical Performance in Older Adults: A Nationwide Study in Taiwan. *PLoS ONE*. 2013. 8: e80209.

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Chang YC[†], **Chiu YF[†]**, Liu PH, Hee SW, Chang TJ, et al. Genetic Variation in the NOC Gene Is Associated with Body Mass Index in Chinese Subjects. *PLoS ONE*. 2013. 8(7): e69622. doi:10.1371/journal.pone.0069622. († Co-first author)

Fang YH, **Chiu YF***. SVM-based generalized multifactor dimensionality reduction approaches for detecting gene-gene interactions in family studies. *Genet Epidemiol*. 2012, Feb;36(2):88-98.

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Chang YC, Liu PH, Tsai YC, **Chiu YF**, Shih SR, Ho LT, Lee WJ, Lu CH, Quertermous T, Curb JD, Lee WJ, Lee PC, He YH, Yeh JI, Hwang JJ, Tsai SH, Chuang LM. Genetic variation in the carbonyl reductase 3 gene confers risk of type 2 diabetes and insulin resistance: a potential regulator of adipogenesis. *J Mol Med (Berl)*. 2012. Apr 15;90(7):847-58.

Chang YC[†], **Chiu YF**[†], Liu PH, Shih KC, Lin MW, Sheu WHH, Quertermous T, Curb JD, Hsiung CA, Lee WJ, Lee PC, Chen YT, Chuang LM. Replication of Genome-Wide Association Signals of Type 2 Diabetes in Han Chinese in a Prospective Cohort. *Clinical Endocrinology*. 2012. Mar;76(3):365-72. († Co-first author)

Lee IT, **Chiu YF**, Hwu CM, He CT, Chiang FT, Lin YC, Assimes T, Curb JD, Sheu WH. Central obesity is important but not essential component of the metabolic syndrome for predicting diabetes mellitus in a hypertensive family-based cohort. Results from the Stanford Asia-Pacific Program for Hypertension and Insulin Resistance (SAPHIRE) Taiwan follow-up study. *Cardiovasc Diabetol*. 2012. Apr 26;11(1):43.

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Chiu YC, **Chiu YF**, Hsu WC, Lee SH, Chen ST, Kao HY. Developing a Chinese quality of life in dementia instrument for patients with early-to-moderate dementia: an exploratory test of validity. *J Clin Nurs*. 2010. Aug;19(15-16):2174-84.

Chiu YF*, Chiou JM, Liang KY, Lee CY. Incorporation of covariates in simultaneous localization of two linked loci using affected relative pairs. *BMC Genet.* 2010. Jul 14;11:67.

Chiu YF, Chuang LM, Kao HY, Shih KC, Lin MW, Lee WJ, Quertermous T, Curb JD, Chen I, Rodriguez BL, Hsiung CA. Sex-specific genetic architecture of human fatness in Chinese: the SAPHIRE Study. *Hum Genet.* 2010. Nov;128(5):501-13.

Jiang YD, Chang YC, **Chiu YF**, Chang TJ, Li HY, Lin WH, Yuan HY, Chen YT, Chuang LM. SLC2A10 genetic polymorphism predicts development of peripheral arterial disease in patients with type 2 diabetes. SLC2A10 and PAD in type 2 diabetes. *BMC Med Genet.* 2010. Aug 25;11:126. (Co-first author)

Chang YC[†], **Chiu YF**[†], Shih KC, Lin MW, Sheu WH, Donlon T, Curb JD, Jou YS, Chang TJ, Li HY, Chuang LM. Common PCSK1 haplotypes are associated with obesity in the Chinese population. *Obesity (Silver Spring).* 2010. Jul;18(7):1404-9. ([†] Co-first author)

Chang YC[†], **Chiu YF**[†], Ho LL, Ting CT, Shih KC, Curb JD, Chen YD, Li HY, Chuang LM. TCF7L2 genetic variants and progression to diabetes in the Chinese population: pleiotropic effects on insulin secretion and insulin resistance. *J Mol Med.* 2010. Feb;88(2):183-92. ([†] Co-first author)

Engelman CD, Baurley JW, **Chiu YF**, Joubert BR, Lewinger JP, Maenner MJ, Murcray CE, Shi G, Gauderman WJ. Detecting gene-environment interactions in genome-wide association data. *Genet Epidemiol.* 2009. 33 Suppl 1:S68-73.

Chiu YF*, Kao HY, Chen YS, Hsu FC, Yang HC. Assessment of gene-covariate interactions by incorporating covariates into association mapping. *BMC Proc.* 2009. Dec 15;3 Suppl 7:S85.

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Chiu YF, Liang KY, Beaty TH, Chuang LM. Incorporation of Covariates into Multipoint Linkage Disequilibrium Mapping in Case-Control Studies. *Genet Epidemiol.* 2008. 32(2):143-51.

Li HY, **Chiu YF**, Hwu CM, Sheu WH, Hung YJ, Fujimoto W, Quertermous T, Curb JD, Tai TY, Chuang LM. The negative correlation between plasma adiponectin and blood pressure depends on obesity: a family-based association study in SAPHIRE. *Am J Hypertens.* 2008. Apr;21(4):374-5.

Culverhouse RC, Suarez BK, Beckmann L, Chen P, Chen YS, **Chiu YF**, Chang-Claude J, Dempfle A, Hein R, Kzma R, Lebec JJ, Lee S, Lim S, Maher

BS, Park T, Perdry H, Wang KS, Wolkow PP, Xu W. Gene by environment interactions. *Genet Epidemiol*. 2007. 31 Suppl 1:S68-74.

Chen YS, **Chiu YF***, Kao HY, Hsu FC. Assessing Genotype by Environment Interaction in Linkage Mapping Using Affected Sibpairs. *BMC Proceedings*. 2007. 1(Suppl 1):S71.

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Chiu YF, Chuang LM, Kao HY, Ho LT, Ting CT, Hung YJ, Chen YD, Donlon T, Curb JD, Quertermous T, Hsiung CA. The SAPPHiRe Study Group Bivariate genome-wide scan for metabolic phenotypes in non-diabetic Chinese individuals from the Stanford, Asia and Pacific Program of Hypertension and Insulin Resistance Family Study. *Diabetologia*. 2007. 50:1631-1640.

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Yu SH, Chen YY, **Chiu YF**, Chen CC, Chiu CH, Kuo CJ, Chang H, Sung YJ. Socioeconomic Factors and Suicide Mortality Trends in Taipei City between 1991 and 2004. *台灣公共衛生雜誌*. 2007. 26 卷 1 期 P. 66-74.

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- Potash BJ, **Chiu YF**, MacKinnon DF, Miller EB, Simpson SG, McInnis MG and DePaulo JR. Familiality aggregation of psychotic symptoms in replication set of 69 bipolar disorder pedigrees. *The American Journal of Medical Genetics Neuropsychiatric*. 2003. 116B(1):90-7.
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Potash BJ, Willour V, **Chiu YF**, Simpson SG, MacKinnon DF, DePaulo JR, McInnis MG. The familiarity of psychotic symptoms in bipolar disorder pedigrees. *American Journal of Psychiatry*. 2001. 158(8):1258-64.

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Potash BJ, Kane HS, **Chiu YF**, Simpson SG, MacKinnon DF, McInnis MG, McMahon FJ, DePaulo JR. Attempted suicide and alcoholism in bipolar disorder: clinical and familial relationships. *American Journal of Psychiatry*. 2000. 157(12): 2048-50.

Barnes KC, Freidhoff LR, Nickel R, **Chiu YF**, Juo SH, Hizawa N, Naidu RP, Ehrlich E, Duffy DL, Schou C, Levett PN, Marsh DG, Beaty TH. Dense mapping of chromosome 12q13.12-q23.3 and linkage to asthma and atopy. *Journal of allergy and clinical immunology*. 1999. 104:485-491.

Hizawa N, Freidhoff LR, Ehrlich E, **Chiu YF**, Duffy DL, Schou C, Dunston GM, Beaty TH, Marsh DG, Barnes KC, Huang SK. Genetic influences of chromosomes 5q31-q33 and 11q13 on specific IgE responsiveness to common inhaled allergens among African American families. *Journal*

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	Award
	Young Investigator Award 2009, National Health Research Institutes