## Wei Q. Deng

# University of Toronto wei.deng@mail.utoronto.ca

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2013–present	PhD. in Statistics under supervision of Radu V. Craiu, University of Toronto
2011 – 2013	M.Sc. in Health Research Methodology with distinction under supervision of Angelo Canty,
	McMaster University
2007 – 2011	Honours B.Sc. in Mathematics & Statistics with distinction, McMaster Unversity

#### **Publications**

#### Peer reviewed Journal Article:

2017 2016	Wei Q. Deng, Dmitry Shungin,, Franks W. Paul Ranking and characterization of established BMI and lipid associated loci as candidates for gene-environment interactions. <i>PLOS Genetics</i> 13(6): e1006812. https://doi.org/10.1371/journal.pgen.1006812 Guillaume Paré, Shihong Mao, Wei Q. Deng, A method to estimate the contribution of
2010	regional genetic associations to complex traits from summary association statistics <i>Scientific Reports</i> . 6, 27644. http://doi.org/10.1038/srep27644
2015	Guillaume Paré, Senay Asma, <b>Wei Q. Deng</b> , Contribution of Large Region Joint Associations to Complex Traits Genetics. <i>PLOS Genetics</i> . 11(4): e1005103. doi: 10.1371/journal.pgen.1005103
2014	Zahra N. Sohani, <b>Wei Q. Deng</b> , Guillaume Paré, David Meyre, Hertzel C. Gerstein, and Sonia S. Anand, Does genetic heterogeneity account for the divergent risk of type 2 diabetes mellitus in South Asian and white Caucasian populations? <i>Diabetologia.</i> , 57(11), 2270-2281. doi:10.1007/s00125-014-3354-1
2014	Michela Brambatti, Stuart J Connolly, Michael R Gold,, <b>Wei Q. Deng</b> (15/17),, Jeff S Healey, Temporal Relationship between Subclinical Atrial Fibrillation and Embolic Events. <i>Circulation</i> . doi: 10.1161/CIRCULATIONAHA.113.007825
2013	<b>Deng WQ</b> , Asma S, and Paré G., Meta-analysis of SNPs involved in variance heterogeneity using Levene's test for equal variances. <i>European Journal of Human Genetics</i> . doi:10.1038/ejhg.2013.166
2011	<b>Deng WQ</b> and Paré G., A fast algorithm to optimize SNP prioritization for gene-gene and gene-environment interactions. <i>Genetic Epidemiology.</i> <b>35</b> : 729738. doi: 10.1002/gepi.20624
2011	Lear SA, <b>Deng WQ</b> , Paré G, Sulistyoningrum DC, Loos RJF, Devlin AM., Associations of the FTO rs9939609 variant with discrete body fat depots and dietary intake in a multi-ethnic cohort. <i>Genetics Research</i> , <b>93(6)</b> , 419-26. doi:10.1017/S001667231100036

## Software Package:

Wei Q. Deng and Guillaume Paré (2011). GEWIST: Gene Environment Wide Interaction Search Threshold. Bioconductor Release (2.11). R package version 1.2.0. http://www.bioconductor.org/packages/2.11/bioc/html/GEWIST.html

#### Conference Presentations:

2016 Deng WQ., Sun L, Addressing the inherent confounding by sex on X-chrom	
association and variance heterogeneity analyses - statistical issues and ren	leales,
International Genetic Epidemiology Society (Toronto, Canada)	
Deng WQ., Sun L, Addressing the inherent confounding by sex on X-chrom	
association and variance heterogeneity analyses - statistical issues and ren	iedies,
American Society of Human Genetics meeting (Vancouver, Canada)	_
2016 Deng WQ., Craiu R.V, Estimation of the number of clusters using penalized p	oroba-
bilistic PCA 2016 Joint Statistical Meetings (Chicago, US)	
2013 Sohani ZN., Deng WQ., Anand S.S, Polymorphisms of DNA leading to increase	
ceptibility for Type 2 Diabetes in South Asians: A systematic review and	meta-
analysis. 62nd Annual American Society of Human Genetics meeting (Boston, USA)	
2012 Deng WQ, Canty A, Asma S, Paré G, A likelihood approach to prioritize SN	Ps for
interactions using variance per genotype. Presented by the first author at the	ne 21st
annual International Genetic Epidemiology Society conference (Stevenson, USA)	
2012 Deng WQ, Asma S, Paré G, Prioritizing SNPs for Gene-gene and Gene-environment	nment
Interactions: A Method to Meta-analyze Levene's Test of Homogeneity of	Vari-
ance. Presented by the third author at the 21st annual International Genetic Epider	niology
Society conference (Stevenson, USA)	
2011 Deng WQ and Paré G, A fast algorithm to optimize SNP prioritization for general	e-gene
and gene-environment interactions Presented by the first author at the 60th	Annual
American Society of Human Genetics (ASHG) meeting (Montreal, Canada)	
2011 Deng WQ, Canty A, Paré G, A likelihood approach to prioritize SNPs for intera	ctions
using variance per genotype Presented by the first author at the 20th annual Intern	
Genetic Epidemiology Society (IGES) conference (Heidelberg, Germany)	
2011 Deng WQ, Canty A, Paré G, A likelihood approach to prioritize SNPs for intera	ctions
using variance per genotype Presented by the second author at the 6th Annual Ca	
Genetic Epidemiology & Statistical Genetics Meeting (Toronto, Canada)	

## Peer Reviews

J	Οl	ırn	iais	3:

2014 Behaviour Research Methods

**2014** PLOS ONE

## Skills

Programming: R, SAS

Genetic Softwares: GCTA, GATK, PLINK, SNPTEST

## Awards and Honours

Queen Elizabeth II Graduate Scholarship in Science and Technology \$15,000/year for one year	2017
Alexander Graham Bell Canada Graduate Scholarships (NSERC-CGS) - Doctoral $$35,000/\text{year}$ for three years	2014
Ontario Graduate Scholarship \$15,000/year for one year	2013
Graduate Admission Award (University of Toronto) \$2,000	2013
CIHR Master's Award Frederick Banting and Charles Best Canada Graduate Scholarships \$17,500/year for one year	2012
Ontario Graduate Scholarship \$15,000/year for one year; declined	2012
Ontario Graduate Scholarship \$15,000/year for one year	2011
McMaster Entrance Scholarship (Graduate Level) \$5,000	2011
Department of Mathematics and Statistics, McMaster University Included on the Dean's Honour List for academic excellence	2011
Department of Mathematics and Statistics, McMaster University Included on the Dean's Honour List for academic excellence	2008-2009
McMaster Entrance Award Scholarship Awarded for academic achievements in secondary school and retained for academic excellence (\$2,000/year for 4 years)	2007-2011
Queen Elizabeth II Aiming for the Top Scholarship Awarded for academic excellence and retained for academic excellence (\$3,500/year for 3 years)	2007-2010