

Jean Morrison

Postdoctoral Scholar
University of Chicago
Department of Human Genetics

520.548.3773
morrison.jeanv@gmail.com

Education

- 2016 PHD BIOSTATISTICS, University of Washington
Advisor: Noah Simon, Department of Biostatistics
- 2009 BA MATHEMATICS, University of Chicago

Work Experience

DEPARTMENT OF BIOSTATISTICS, UNIVERSITY OF WASHINGTON

- 12.2013–
8.2016 *Research Assistant*
Supervisor: Noah Simon
Statistical methods for spatially structured genomic data and high dimensional studies.
- 6.2014–9.2015 *Research Assistant*, Genetic Analysis Center
Supervisor: Cathy Laurie
Genome wide association analysis of blood cell and dental traits for the Hispanic Community Health Study/ Study of Latinos, a large multi-ethnic study of Latino populations.
- 6.2011–6.2014 *Research Assistant*
Supervisor: Bruce Weir and Tim Thornton
Investigations of population structure and its effects in genetic association studies.

DEPARTMENT OF MEDICINE, SECTION OF GENETICS, UNIVERSITY OF CHICAGO

- 7.2009–6.2011 *Research Assistant*
Supervisor: Nancy Cox
Genome wide association analysis, quality control and imputation for the Hyperglycemia and Adverse Pregnancy Outcomes (HAPO) study. QC and programming support for other genetic analysis projects.

Honors, Awards

2016	ASA Section on Genetics and Genomics Student Paper Award
	University of Washington School of Public Health Gilbert S. Omenn Award for Academic Excellence
2016	Ruth L. Kirschstein Predoctoral Individual National Research Service Award, National Institutes of Health
2016	
2011–2014	Biostatistics Statistical Genetics Training Grant, National Institutes of Health

Publications

Morrison, Jean, Daniela Witten, and Noah Simon (2016). "Joint Adaptive Differential Estimation: A tool for comparative analysis of smooth genomic data types." *Biostatistics* In press.

Schick, Ursula M., Deepti Jain, Chani J. Hodonsky, Jean V. Morrison, James P. Davis, Lisa Brown, et al. (2016). "Genome-wide Association Study of Platelet Count Identifies Ancestry-Specific Loci in Hispanic/Latino Americans". English. *The American Journal of Human Genetics* 98, pp. 229–242.

Morrison, Jean, Cathy C Laurie, Mary L Marazita, Anne E Sanders, Steven Offenbacher, Christian R Salazar, et al. (2015). "Genome-wide association study of dental caries in the Hispanic Communities Health Study/Study of Latinos (HCHS/SOL)." *Human Molecular Genetics* 25.4, pp. 807–816.

Hayes, M. Geoffrey, Margrit Urbanek, Marie France Hivert, Loren L. Armstrong, Jean Morrison, Cong Guo, et al. (2013). "Identification of HKDC1 and BACE2 as genes influencing glycemic traits during pregnancy through genome-wide association studies". *Diabetes* 62.9, pp. 3282–3291.

Morrison, Jean (2013). "Characterization and correction of error in genome-wide ibd estimation for samples with population structure". *Genetic Epidemiology* 37.6, pp. 635–641.

Urbanek, Margrit, M. Geoffrey Hayes, Loren L. Armstrong, Jean Morrison, Lynn P. Lowe, Sylvia E. Badon, et al. (2013). "The chromosome 3q25 genomic region is associated with measures of adiposity in newborns in a multi-ethnic genome-wide association study". *Human Molecular Genetics* 22.17, pp. 3583–3596.

Below, J. E., E. R. Gamazon, J. V. Morrison, A. Konkashbaev, A. Pluzhnikov, P. M. McKeigue, et al. (2011). "Genome-wide association and meta-analysis in populations from Starr County, Texas, and Mexico City identify type 2 diabetes susceptibility loci and enrichment for expression quantitative trait loci in top signals". *Diabetologia* 54.8, pp. 2047–2055.

Presentations

Morrison, Jean, Noah Simon, and Daniela Witten (2016). "Simultaneous Detection and Estimation of Trait Associations with Genomic Phenotypes". In: *Joint Statistical Meetings*. Chicago, IL.

Morrison, Jean, Richard Sandstrom, and Noah Simon (2015). "Locally adaptive comparison of DNase I profiles to detect fine scale differences in regulatory activity." In: *American Society for Human Genetics Meetings*. Baltimore, MD.

Morrison, Jean, Daniela Witten, and Noah Simon (2014). "JADE: A tool for comparative analysis of spatially smooth genomic data." In: *American Society for Human Genetics Meetings*. San Deigo, CA.

Morrison, Jean (2012). "Overestimation of relatedness in admixed and ancestrally heterogeneous populations using method of moments estimation." In: *American Society for Human Genetics Meetings*. San Francisco, CA.

Morrison, Jean, DA Scheftner, A Pluzhnikov, LP Lowe, C Ackerman, L Armstrong, et al. (2011). "SNPs near CCNL1 associated with infant adiposity in multi-ethnic mega-analysis with strongest effect observed in European ancestry newborns". In: *International Congress on Human Genetics meeting*. Montreal, Quebec.

Morrison, Jean, Anna Pluzhnikov, MG Hayes, H Lee, David Levine, Caitlin McHugh, et al. (2010). "G6PC2 associated with fasting glucose levels in pregnant women of European ancestry." In: *American Society for Human Genetics Meetings*.

R Packages

jadeTF: <https://github.com/jean997/jadeTF>

Teaching Experience

Fall 2014	<i>Teaching Assisitant</i> , BIOST 536: Categorical Data Analysis in Epidemiology Supervisor: Scott Emerson
Spring 2014	<i>Teaching Assisitant</i> , BIOST 540: Correlated Data Analysis Supervisor: Ken Rice
9.2008–5.2009	<i>Teaching Assistant for SESAME Algebra</i> , University of Chicago Algebra for middle grade teachers.
9.2006–9.2007	<i>Young Scholars Program Counselor/Teaching Assistant</i> , University of Chicago Math enrichment program for middle schoolers.

Professional Service

- 9.2015–Now *Member*, Biostatistics Department Curriculum Committee
- 9.2014–5.2015 *Member*, Biostatistics Department Student, Faculty Relations Committee