MARK REPPELL

Address Cummings Life Science Center 411
Department of Human Genetics
University of Chicago
920 E. 58th Street
Chicago, IL 60637

Phone (504) 782-9705

Email mreppell@uchicago.edu

EMPLOYMENT

2014-Present

Postdoctoral Researcher
Department of Human Genetics
University of Chicago, Chicago
Advisor: Prof. John Novembre

EDUCATION

2010-2014

Ph.D. · Biostatistics
University of Michigan, Ann Arbor
Dissertation: *Using rare genetic variation to understand human demographics and the etiology of complex traits*
Advisor: Prof. Sebastian Zöllner

2008-2010

M.S. · Biostatistics
University of Michigan, Ann Arbor
Advisor: Prof. Mike Boehnke

2002-2006

B.S. · Mathematics and Ecology/Evolutionary Biology
Tulane University, New Orleans

PUBLICATIONS

Reppell M, Koch E, Peter BM, Novembre J. (2014) Surfing waves of data in San Diego: sophisticated analyses provide a broad view of human genetic diversity. *Genome Biology.* 15:562

Zawistowski M*,**Reppell M***, Wegmann D, St Jean PL, Ehm MG, Nelson MR, Novembre J, Zöllner. (2014) Analysis of rare variant population structure in Europeans explains differential stratification of gene-based tests. *European Journal of Human Genetics.* 22, 11371144

Reppell M, Boehnke M, Zöllner S. (2013) The impact of accelerating, faster than exponential population growth on genetic variation. *Genetics.* 196, 819-828.

Reppell M, Boehnke M, Zöllner S. (2012) FTEC: a coalescent simulator for modeling faster than exponential growth. *Bioinformatics.* 28, 1282-1283.

PRESENTATIONS

The distribution of internal branch lengths in the Kingman coalescent. **Reppell M**, Zöllner S. October 2014, American Socieity of Human Genetics Annual Conference. (Poster)

Incorporating faster than exponential population growth into the coalescent using FTEC. National Center for Integrative Biomedical Informatics Tools & Technology Seminar Series. University of Michigan. January 2013. (Talk)

An Assessment of Population Stratification in Rare Variant Association Tests Using an Analytic Model of Joint Site Frequency Spectra. **Reppell**

M, Zawistowski M, Wegmann D, St Jean PL, Ehm MG, Nelson MR, Novembre J, Zöllner S. November 2012, American Society of Human Genetics Annual Conference. (Poster)

A Coalescent Simulator Capable of Modeling Faster than Exponential Growth. **Reppell M**, Boehnke M, Zöllner S. November 2011, International Congress of Human Genetics. (Poster)

Identification of plausible sets of causal SNPs in GWAS associated regions. **Reppell M**, Ma C, Boehnke M, Scott LJ. November 2010, American Society of Human Genetics Annual Conference. (Poster)

TEACHING

2014 Guset Lab · "Population structure in the coalescent." Biostatistics 665: Statistical Population Genetics.

2014 Guest Lecture · "Group-based association testing using EPACTS." Human Genetics 471: Introduction to Statistical Genetics.

ORGANIZATIONAL SERVICE

2010-2013 Organizer · Statistical Genetics Journal Club, University of Michigan

Referee · *Genetics*

HONORS

2009-2012 NIH Pre-Doctoral Genome Science Training Program, University of Michigan

2008-2014 Graduate Student Research Assistant, University of Michigan Department of Biostatistics

2006 Departmental Honors, Tulane University Mathematics Department

2006 Cum Laude, Tulane University

2002-2006 Deans Honor Scholarship, Tulane University

PROFESSIONAL MEMBERSHIPS

2010-Present American Society of Human Genetics

COMPUTATIONAL SKILLS

C++, Perl, R, Latex, Linux, Microsoft Office Suite, Coalescent simulation, Genetic association testing