

Michael Turchin

Department of Human Genetics, University of Chicago
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Education

- 2016 (est.) PhD – University of Chicago
Human Genetics (Advisor: Matthew Stephens)
2009 BS (Dual; *Magna Cum Laude*) – Cornell University
Biological Sciences (Genetics) and Animal Science

Professional Experience

- 2012– Graduate Research – Dr. Matthew Stephens, University of Chicago
2012–13 Graduate Research – Dr. Jonathan Pritchard, University of Chicago
2009–11 Research Assistant – Dr. Joel Hirschhorn, Children’s Hospital Boston /
The Broad Institute
2006–09 Undergraduate Research – Dr. Charles Aquadro, Cornell University
2004 Summer Internship – Dr. John True, SUNY Stony Brook

Teaching and Academic Services

- 2014 Winter ECEV 3560 – Principles of Population Genetics I (TA)
2013 Fall HGEN 4700 – Human Genetics I (TA)
2013 Winter ECEV 3560 – Principles of Population Genetics I (TA)
2012 Fall MGCB/HGEN 3140 – Genetic Analysis of Model Organisms (TA)
2013–15 Student Representative, Department of Human Genetics (UChicago)
2014–15 Novembre-He-Stephens Lab Meeting Coordinator (UChicago)
2013–14 Novembre-Stephens Lab Meeting Coordinator (UChicago)
2015 Chicago Area Undergraduate Research Symposium (Judge)
2015 American Society of Human Genetics DNA Day Essay Contest (Judge)
2014 Chicago Area Undergraduate Research Symposium (Judge)
Reviewer *Human Molecular Genetics*

Awards, Grants and Scholarships

- 2016 NIH/NIAID F31 NRSA Predoctoral Training Fellowship (UChicago)
2015–16 ITM/NIH CTSA TL1 Training Grant (UChicago)
2013 NSF Graduate Research Fellowship Program – Honorable Mention (UChicago)
2011–14 NIH T32 Genetics and Regulation Training Grant (UChicago)
2011 Pauley Fellowship (UCLA; Declined)
2009 Morrison Award (Cornell)
2009 American Society of Animal Science Undergraduate Nomination (Cornell)
2008 S. Ann and Robert R. Morley Student Research Grant (Cornell)

2007 Howard Hughes Summer Research Program in Biology (Cornell)

Conference and Meeting Presentations

2015 Cold Spring Harbor Labs: Probabilistic Modeling in Genomics (Poster)
2015 The Genomics of Common Diseases (Poster)
2015 Society of Molecular Biology and Evolution Annual Meeting (Poster)
2014 American Society of Human Genetics Annual Meeting (Poster)
2014 Midwest PopGen Meeting (Poster)
2014 Cold Spring Harbor Labs: Biology of Genomes (Poster)
2011 The Broad Institute: Program in Medical and Population Genetics (Seminar)
2011 Cold Spring Harbor Labs: Biology of Genomes (Talk)
2010 American Society of Human Genetics Annual Meeting (Poster)

Publications

Simons, Y.B.*, **Turchin M.C.***, Pritchard, J.K. and Sella G. 2014. The deleterious mutation load is insensitive to recent population history. *Nature Genetics*. 46(3): 220-224

Turchin, M.C.*, Chiang, C.W.K.*, Palmer, C.D., Sankararaman, S., Reich, D., GIANT Consortium, Hirschhorn, J.N. 2012. Evidence of widespread selection on standing variation in Europe at height-associated SNPs. *Nature Genetics*. 44(9): 1015-9

Turchin, M.C. and Hirschhorn, J.N. 2012. Gencrypt: One-way cryptographic hashes to identify overlapping individuals. *Bioinformatics*. 28(6): 886-8

Wong, A.W., **Turchin, M.C.**, Wolfner, M.F. and Aquadro, C.F. 2012. Temporally variable selection on proteolysis-related reproductive tract proteins in *Drosophila*. *Molecular Biology and Evolution*. 29(1): 229–38

Dauber, A.*, Yongguo, L.*, **Turchin, M.C.**, Chiang, C.W.K., Meng, Y.A., Demerath, E.W., Patel, S.R., Rich, S.S., Rotter, J.I., Schreiner, P.J., Wilson, J.G., Yiping, S., Wu, B., and Hirschhorn, J.N. 2011. Genome-wide association of copy number variation reveals an association between short stature and the presence of low frequency genomic deletions. *American Journal of Human Genetics*. 89(6): 751-9

Lango A.H, Estrada K., Lettre G., Berndt S.I., Weedon M.N., Rivadeneira F., Willer C.J., et al. 2010. Hundreds of variants clustered in genomic loci and biological pathways affect human height. *Nature*. 467(7317): 832-8

Wong, A.W., **Turchin, M.C.**, Wolfner, M.F. and Aquadro, C.F. 2008. Evidence for positive selection on *Drosophila melanogaster* seminal fluid protease homologs. *Molecular Biology and Evolution*. 25(3): 497–506

* indicates these authors have contributed equally

References

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Dr. Joel Hirschhorn – PI; Phone: 617-919-2129, Email: joelh@broadinstitute.org