

# Hamilton Hoxie Ackerman

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EDUCATION	<b>UC Berkeley</b> , Berkeley, CA PhD Program, Department of Statistics National Science Foundation, VIGRE Fellowship	2010 - 2015 (expected) 1 <sup>st</sup> Year
	<b>Boston University</b> , Boston, MA Master of Arts in Mathematics (Specialty in Statistics) Bachelor of Arts in Mathematics (Specialty in Statistics) Overall GPA: 3.97, Mathematics GPA: 4.00 Summa Cum Laude, Phi Beta Kappa Trustee Scholar, College Prize Winner for Excellence in Statistics	2005 - 2009 2005 - 2009
RESEARCH EXPERIENCE	<b>Biogen Idec</b> , Cambridge, MA <i>Associate Scientist I, Genetics Department</i> As a statistical geneticist on genome-wide association studies for rheumatoid arthritis and progressive multifocal leukoencephalopathy, I: <ul style="list-style-type: none"><li>• Developed, maintained, and implemented automated genome-wide association pipelines</li><li>• Coauthored two journal articles based on research findings</li><li>• Tools used: UNIX R, Bash shell, Perl   PLINK, Eigenstrat, MACH, Haploview, HapMap data   logistic regression, random forests, parallel computing, FDR analysis</li></ul>	June 2009 - July 2010
	<b>Mathematical and Theoretical Biology Institute</b> , Arizona State University, Tempe, AZ <i>REU Student Participant</i> Conducted epidemiological research on the impact of clusters of unvaccinated individuals on disease dynamics in a population of households: <ul style="list-style-type: none"><li>• Constructed and analyzed an SIR model with two classes of susceptible individuals</li><li>• Performed millions of stochastic simulations using MATLAB</li></ul>	Summer 2008
	<b>Joint Program in Survey Methodology</b> , University of Maryland, College Park, MD <i>Student Participant</i> Interned at the U.S. Bureau of Economic Analysis with Dr. Ana Aizcorbe: <ul style="list-style-type: none"><li>• Performed large-scale (~10 million observations) data processing and analysis using SAS</li><li>• Wrote a SAS macro to computationally efficiently bootstrap the standard errors of price indexes</li></ul>	Summer 2007
COMPUTER SKILLS	Languages: R, SAS, basic Python and Matlab, L <sup>A</sup> T <sub>E</sub> X Environments: Mac OS X, *NIX	
PUBLICATIONS	D. E. Hiebeler, I. J. Michaud, <b>H. H. Ackerman</b> , S. Reed, A. Robinson. Multigeneration $R_0$ and the Effects of Clustered Unvaccinated Individuals on Epidemic Outbreak. Submitted, <i>Bulletin of Mathematical Biology</i> , 04/2010.	
CONFERENCES	<b>SIAM Conference on the Life Sciences</b> , Montreal, Canada Presented a poster entitled "The Effects of Clustered Unvaccinated Individuals on Epidemic Outbreak" based on summer 2008 research	August 2008