Masanori Koyama

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EDUCATION

- Ph.D., Mathematics, University of Wisconsin, Madison, WI, 2013 (expected.)
- M.A., Mathematics, University of Wisconsin, Madison, WI, 2009.
- B.A., Mathematics with honors, Harvey Mudd College, Claremont, CA, 2007.

EMPLOYMENT

- August 2007 – Present,
  - Teaching Assistant / Research Assistant in Department of Mathematics, University of Wisconsin, Madison.

WRITINGS

1. Laurence Loewe, Ka Fai Poon, Masanori Koyama, David Anderson. *The Principle of No delayed consumption*, in progress.

2. Michael Hansen, Masanori Koyama, and Michael Orrison. *Doubly adapted tensor basis of the Symmetric Group Algebra*, in progress.

3. Gota Morota, Koyama M, Rosa GJM, Weigel KA, and Gianola D. *Predicting complex traits using a diffusion kernel on SNP data with an application to dairy cattle and wheat breeding*, submitted.

4. David F. Anderson and Masanori Koyama, *Weak error analysis of numerical methods for stochastic models of population processes*, SIAM: Multiscale Modeling and Simulation, Vol. 10, No. 4, 1493 - 1524, 2012.

5. Masanori Koyama, Michael Orrison and David Neel, *Irreducible graphs.* Journal of Combinatorial Mathematics and Combinatorial Computing, Vol 62, 35-43, 2007.

LANGUAGE

- Fluent in English and Japanese. Conversational skill in Chinese.
- Proficient in Matlab, R, Java.

SOFTWARE DEVELOPMENT

- In collaboration with Gota Morota, constructed the mathematical framework to the R package: "`http://cran.r-project.org/web/packages/dkDNA/index.html`"dkRNA: Diffusion Kernels on a set of genotypes"