

Masanori Koyama

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EDUCATION

- M.A., Mathematics, University of Wisconsin Madison, 2009.
- B.A., Mathematics with honor, Harvey Mudd College, Claremont, CA 2007.

EMPLOYMENT

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

WRITINGS

1. Masanori Koyama, Michael Orrison and David Neel, *Irreducible graphs*. Journal of Combinatorial Mathematics and Combinatorial Computing.
2. David F. Anderson and Masanori Koyama, Weak error analysis of approximate simulation methods for multi-scale stochastic chemical kinetic systems. Submitted. Available on arxiv.org at "<http://arxiv:1102.2922>."
3. Laurence Lowewe, Ka Fai Poon, Masanori Koyama, David Anderson. *The Principle of No delayed consumption*, in progress.
4. Gota Morota, Masanori Koyama, Daniel Gianola. *Genomic Prediction based on discrete diffusion kernel*, submitted.
5. Michael Hansen, Masanori Koyama, Michael Orrison, *Doubly adapted tensor basis of the Symmetric Group Algebra*, in progress.
6. David F. Anderson and Masanori Koyama, *Relationship between common reaction coupling and the coupling of kurtz*, in progress.
7. David F. Anderson and Masanori Koyama *Sensitivity analysis using the MLMC based on Girsanov transformation*

LANGUAGE

- Fluent in English, Japanese. Conversational skill in Chinese.
- Intermediate Skills in Matlab, R, java, python

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"