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# CURRICULUM VITAE

## YVES F. ATCHADÉ

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### 1. EDUCATION

Universite Nationale du Benin, Benin	Mathematics	DEUG, 1995
ENSEA, Abidjan, Cote d'Ivoire	Statistics & Economics	Engineering degree, 1998
University of Montreal, Montreal, Canada	Statistics	PhD, 2003
University of Toronto, Toronto, Canada,	Computational Statistics	Winter 2003
Harvard University, Cambridge, USA	Computational Statistics	2003-2004

### 2. APPOINTMENTS

1. 2004 to 2006: Assistant Professor of statistics, University of Ottawa, Ottawa, Canada.
2. 2006 to present: Assistant Professor of statistics, University of Michigan, Ann Arbor, USA.

### 3. RESEARCH INTERESTS

Applied Probability, Bayesian modeling, Monte Carlo algorithms, Adaptive Markov Chain Monte Carlo, Causal inference, Protein design, Social networks, Dynamic random fields on graphs and social networks.

### 4. RESEARCH GRANTS

- NSF Grant. (PI) 2008/1/09-08/31/2012. "Adaptive Markov Chain Monte Carlo" \$99,556.00.
- Rackham Grant. (PI) 4/1/2007-6/30/2008. University of Michigan \$14,827 ."Phylogenetic inference using models of sequence evolution that incorporates proteins tertiary structure".

## 5. PHD STUDENTS SUPERVISION

- Jing Wang. working on "Response Evolution on Social Networks and Sampling from Doubly-intractable Distributions".

## 6. EDITORIAL AND PROFESSIONAL SERVICE

- Past Referee for the following journals: Annals of Appl. Probab., Bernoulli, Methodol. and Comput. in Appl. Probab., Annals of Stat., Stat. Sinica, Statistics and Computing, Journal of Comp. and Graph. Stat., JASA, Journal of financial Econometrics, JRSS-B.
- Summer lecture at *Institut de Recherche en Economie Empirique et Politique* (IREEP, www.ireep.org), Cotonou, Benin, in computational statistics using R in 2006-2008.

## 7. PUBLICATIONS and Technical reports

1. Y. F. Atchade, J. S. Rosenthal and G. O. Roberts *Optimal Scaling of Metropolis-Coupled Markov Chain Monte Carlo*.
2. Y. F. Atchadé and G. Fort *Limit theorems for some classes of adaptive MCMC algorithms with sub-geometric kernels: Part II*. Technical Report.
3. Y. F. Atchadé and G. Fort *Limit theorems for some classes of adaptive MCMC algorithms with sub-geometric kernels*. Submitted to Bernoulli.
4. Y. F. Atchadé and N. Lartillot and C. P. Robert *Bayesian computation for statistical models with intractable normalizing constants*. submitted to JCGS.
5. Y. F. Atchadé and Leonard Wantchékon *Does Ethnic Solidarity Facilitate Electoral Support for Nation-Building Policies?*. Submitted to American Political Science Review.
6. Y. F. Atchadé *A cautionary tale on the efficiency of some adaptive Monte Carlo schemes*. Submitted to the Annals of Appl. Probab.
7. C. Andrieu and Y. F. Atchadé (2007). *On the efficiency of some adaptive MCMC algorithms*. ACM International Conference Proceeding Series; Vol. 180.
8. Y. F. Atchadé and J. S. Liu (2006) *Discussion of the "Equi-Energy sampler"*. Annals of Statistics 34, No. 4.
9. Y. F. Atchadé and J. S. Liu (To appear). *The Wang-Landau algorithm for Monte Carlo computation in general state spaces*. Statistica sinica.
10. Y. F. Atchadé (To appear) *Resampling from the past to improve on MCMC samplers*. Far East Journal of Theor. Statist.

11. C. Andrieu and Y. F. Atchadé (2007). *On the efficiency of some adaptive MCMC algorithms*. Elect. Comm. In Probab. 12, 336-349
12. Y. F. Atchadé and F. Perron (2007). *Geometric Ergodicity of the Metropolis-Hastings Algorithm*. Statistics 41, 77-84
13. Y. F. Atchadé (2006). *An adaptive version for the Metropolis adjusted Langevin algorithm with a truncated drift*. Methodol. and Comput. in Applied Probab. 8: 235-254.
14. Y. F. Atchadé and J. S. Rosenthal (2005). *On Adaptive Markov Chain Monte Carlo Algorithms*. Bernoulli 11, 815-828.
15. Y. F. Atchadé and F. Perron (2005). *Improving on the Independent Metropolis-Hastings Algorithm*. Statistica Sinica 15, 3-18.

## 8. RECENT INVITED TALKS

- Denver, Colorado, JSM 2008.
- ISBA 2008 annual meeting, Hamilton Island, Australia.
- University of Warwick UK, April 2008.
- University of Montreal, April 2008.
- Adapski/MCMCski 2008, Bormio, Italy.
- Salt Lake City, JSM 2007.
- Seattle, JSM 2006.
- Laval University, 2006.
- University of Michigan 2006.
- UC Davis, 2006.
- University of British Columbia 2006.
- University of Toronto, 2005.