

Curriculum Vitae

KOFI PLACID ADRAGNI

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EDUCATION

PhD in Statistics (2009)

University of Minnesota, Minneapolis, MN
Dissertation Title: Principal Fitted Components on Small Samples
Adviser: Professor R. Dennis Cook

MS Statistics (2006)

University of Minnesota, Minneapolis, MN

BS Physics (1996)

Université de Lomé, Lomé Togo
Final Project: Optimal estimation of solar panel energy for domestic use

RESEARCH INTERESTS

- Dimension Reduction in Regression
- Linear and Nonlinear Models
- Statistical Genomics
- Statistical Computing

EXPERIENCE

National Renewable Energy Laboratory, Golden, Colorado

Visiting Scholar, May 2009 – August 2009

- Implement dimension reduction methodologies to analyze integrated microarray and metabolic datasets
- Provide statistical support to various projects

University of Minnesota

Research Assistant, School of Statistics, summer 2007 – May 2009

- Develop a novel variable selection method in large p small n regression context
- Create a novel nonparametric method for prediction with the use of principal fitted components. Supervised by Prof. Dennis Cook

Graduate Instructor, School of Statistics, spring 2007- fall 2007

- Conducted lectures for graduate and undergraduate students
- Held office hours
- Supervised teaching assistants

Teaching Assistant, School of Statistics, spring 2004 - spring 2006

- Designed and conducted statistical laboratory sessions
- Taught statistical software including R, MacAnova, Arc
- Provided individual and/or group assistance to students

Statistical Consultant, Statistical Consulting Clinic, Fall 2005

- Provided statistical consulting service to University researchers
- Consulted on topics including longitudinal data analysis, survival data analysis, multivariate data analysis, categorical data analysis, linear models, experimental design, microarray data analysis...

Minnesota Office of Higher Education

Internship June 2006-December 2006

Students' financial aid research

- Analyzed undergraduates loan borrowing trends
- Investigated factors influencing students loan amounts borrowed

Lycée Privé Kouvahey Lomé, Togo (W. Africa)

High School Teacher Sept 1997 – June 2000

- Taught Physics and Mathematics

COMPUTER SKILLS

CompTIA A+ Certification (2002)

An international vendor-neutral certification for computer support professionals

Microsoft Certified Professional (2001)

Certification program for Microsoft operating systems

Diploma (2001)

Network Engineering and Data Communication

The Chubb Institute, Jersey City, New Jersey

Operating Systems: MSDOS, Linux, Windows 95/98/NT/2000/XP/Vista

Computer Languages: R/Splus, SPSS, SAS, Visual Basic 5, Winbugs, C.

Office Applications: Microsoft PowerPoint, Access, Excel, Word, Latex

Internet Development: HTML, PHP

Database: Microsoft Access, SQL

STATISTICAL METHODS STUDIED

- Longitudinal data analysis, survival Analysis
- Bayesian and Empirical Bayesian methods
- Design of experiments; Sampling Methodology
- Generalized linear and non-linear models
- Graphics; Statistical Computing, Categorical data analysis
- Multivariate statistical analysis; Time series
- Statistical genomics; Dimension Reduction
- Probability theory; Measure theory; Stochastic Processes

PUBLICATIONS

Kofi Adragni and R Dennis Cook (2009), Sufficient Dimension Reduction and Prediction in Regressions. *Phil. Trans. Royal Soc A*, to appear

Kofi Adragni and Dennis Cook (2008) Discussion on the Sure independence screening for ultrahigh dimensional feature space of Jianqing Fan and Jinchi Lv (2007) *Journal of the Royal Statistical Society Series B*, 70, Part5, pp1:35

Statistical Work Acknowledgement

Brian J. Steffenson et al. (2007). A walk on the wild side: mining wild wheat and barley collections for rust resistance genes - *Australian Journal of Agricultural Research*, 2007, 58, 532–544

Non-refereed co-authored article

Shefali V. Mehta, **Kofi Adragni**, Catherine Close, Tricia Grimes – *Factors Related to Undergraduate Borrowing in Minnesota*. Publish by the Minnesota Office of higher Education at <http://www.ohe.state.mn.us/pdf/MnUndergradBorrowingFactors.pdf>

OTHER INFORMATION

Citizenship: United States of America

Languages: Write, Speak and Read English, French, Ewe