

**BIOGRAPHICAL SKETCH**

Provide the following information for the key personnel and other significant contributors in the order listed on Form Page 2.  
Follow this format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME Omolo, Bernard Oguna	POSITION TITLE Assistant Professor
eRA COMMONS USER NAME Bomolo00	

EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)

INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
Egerton University, Njoro, Kenya	B.Sc.	1990	Mathematics
Egerton University, Njoro, Kenya	M.Sc.	1994	Statistics
Texas Tech University, Lubbock, Texas	Ph.D.	2004	Mathematical Statistics

**A. Positions and Honors.****Positions and Employment**

1990-94 Teaching Assistant, Department of Mathematics, Egerton University  
 1994-99 Assistant Lecturer, Department of Mathematics, Egerton University  
 1999-04 Lecturer, Department of Mathematics, Egerton University  
 1999-04 Graduate Part-time Instructor, Dept of Mathematics & Statistics, Texas Tech University  
 2004 - Assistant Professor, Division of Math & Computer Science, Univ. of South Carolina-Upstate

**Other Experience and Professional Memberships**

2002- Member, International Biometric Society (ENAR)  
 2002- Member, American Statistical Association (ASA)  
 2003- Member, Institute of Mathematical Statistics (IMS)  
 2004- Reviewer for The American Statistician (TAS)  
 2006- Member, SC Biomedical Research Infrastructure Network (SCBRIN)  
 2006- AP Statistics Reader

**Awards**

1993-94 German Academic Exchange (DAAD) Graduate Scholarship, Egerton University  
 1999-00 Gordon Fuller Memorial Graduate Scholarship, Texas Tech University  
 2003-04 Gordon Fuller Memorial Graduate Scholarship, Texas Tech University  
 2003 NSF Travel Award, 7<sup>th</sup> Purdue International Symposium on Statistics, Purdue University  
 2004 NIH/NCI Travel Award, Workshop for Junior Researchers in Biostatistics, Pittsburgh  
 2008 Training Grant, South Carolina Department of Education  
 2008 NSF Travel Award, NSF/ QEM CAREER Proposal Dev & Evaluation Workshop, Washington DC  
 2008-09 NIH/NHLBI SIPID Mentee Award, Washington University – St. Louis  
 2009-10 NIH/NCI Training Fellowship, Biostatistics Research in Genomics and Cancer, UNC-Chapel Hill

**B. Selected peer-reviewed publications (in chronological order).**

- Einmahl J, Omolo B, Puri M, Ruymgaart F (2005). Aligned Rank Statistics for Repeated Measurement Models with Orthonormal Design employing a Chernoff-Savage approach. Journal of Statistical Planning and Inference, 130: 167-182.
- Hart J, Omolo B, Boone R (2007). Thermal Patterns and Health Perceptions. J Canadian Chirop Assoc, 51 (2): 106-111.
- Hart J, Omolo B, Boone R, Brown C, Ashton A (2007). Reliability of Three Methods of Computer-Aided Thermal Pattern Analysis. J Canadian Chirop Assoc, 51(3): 175-185.
- Lee S-H, Lee E, Omolo B (2008). Using Integrated Weighted Survival Difference for the Two Sample

Principal Investigator/Program Director (Last,First,Middle):

Censored data Problem. Computational Statistics & Data Analysis, 52: 4410-4416.

5. Omolo B, Hongmei Z, Karmaus W (2009). Cautions of using allele-based tests under heterosis (under review).

**c. Research Support.**

**Ongoing Research Support**

Faculty Research Omolo (PI)  
USC Upstate

01/12/09 – 05/15/09

The major goal of this project is to assess the influence of heterosis on allele-based tests of genetic association. Power comparisons are made between the allele-based tests and genotype-based tests for various inheritance models (dominant, recessive and co-dominant) in the absence and presence of heterosis, via simulations. Role: PI

**Completed Projects**

08IG308-02 Omolo (PI)  
SC Department of Education

02/15/08 – 06/02/08

The main goal of this project was to help expand and deepen the AP Statistics teachers' factual and interpretive knowledge of statistics and apply the knowledge in designing AP curriculum and lesson plans that would provide high school students with a learning experience equivalent to that of an introductory statistics course at the college level. Role: PI (Professor).

Student Research Assistant Omolo (PI)  
USC Upstate

05/14/08 – 08/15/08

The main goal of this project was to provide summer mentorship and hands-on experience in statistical research to a student assistant in my lab. Role: PI & Mentor