

Muhammad Waliji

Education

The University of Chicago

Master of Science in Statistics, August 2008

Coursework: Probability, Linear Models, Sample Surveys, Experimental Design, Survival Models

Bachelor of Arts in Mathematics, June 2008

Major GPA: 3.95/4.00 GPA: 3.84/4.00

Coursework: Computer Science, Economic Theory, Econometrics, Cell Biology, Genetics

Honors: Student Marshall, Phi Beta Kappa, Dean's List

Research

Department of Statistics, University of Chicago

Student Consultant (Oct. 2007 - Present)

- Planned distribution scheme for vignettes in a pilot survey of 125 physicians that studied the referral decisions for older patients with chronic kidney disease
- Calculated Standard Errors for effects in this factorial design using Monte Carlo Simulations to account for nonresponse

National Opinion Research Center

Research Assistant, Chicago, IL (Sep. 2007 - Present)

- Used Disability-Free Life Expectancy methods to calculate Happy Life Expectancies and analyze differentials among demographic groups
- Employed Logistic Models to smooth Happiness Rates from national survey data
- Reviewed literature in order to suggest appropriate method for the application of longitudinal panel data in the construction of Multistate Life Tables

Mathematics Research Experiences for Undergraduates (REU)

Department of Mathematics, University of Chicago (Summers, 2005 and 2006)

- Completed advanced mathematics coursework, conducted independent study, and gave a presentation to students and faculty on Discrete Mathematics and Probability Theory

Actuarial

Exam P/1 (Probability): Passed, November 2006. Grade: 10/10

Allstate Financial

Actuarial Intern – Financial Modeling, Northbrook, IL (Jun. 2007-Aug. 2007)

- Assisted with the conversion of Term Life Insurance model between modeling platforms
- Integrated coding changes by various modeling employees into corporate model
- Automated the preparation of inforce data from per-policy databases for use in model calculations

Teaching

Department of Mathematics, University of Chicago

Junior Tutor (Sep. 2005-Jun. 2007)

- Led semiweekly tutorials and graded homework for a group of five to seven students enrolled in a first-year calculus course
- Wrote an introduction to mathematical proofs designed for Core Math students

College Core Tutoring Program

Tutor – The College, University of Chicago (Oct. 2006-Jun. 2007)

- Provided a walk-in tutoring service for students enrolled in College Core classes in Mathematics, Statistics, and Economics

Young Scholars Program

Counselor – Department of Mathematics, University of Chicago (Sep. 2006-May 2007)

- Led problem sessions for Middle-School-aged students enrolled in this math enrichment program for talented children in the Chicago Public Schools
- Worked in a team to create a diagnostic exam for entering students

Seminars for Endorsement of Science and Mathematics Educators

Counselor – Department of Mathematics, University of Chicago (Aug. 2006)

- Assisted with the conduction of Physics and Math courses for elementary and middle school teachers in the Chicago Public Schools as part of an Illinois State Endorsement initiative

Neighborhood Schools Program

Tutor – Martin Luther King, Jr. High School, Chicago, IL (Oct. 2004-May 2005)

- Assisted 10th grade Chemistry Teachers with the conduction of their classes and the running of the laboratory

Computer Skills

Programming Languages: Python, C, C++, Java, Perl, UNIX Shell Scripts, Visual Basic

Mathematical Applications: MoSes, Mathematica, R, Stata

Other Applications: LaTeX, Word, Excel, Access