Desale Habtzghi

Statistics Department, College of Art and Science University of Akron Akron, OH 44325 330-972-8636 (Office) 706-614-9633 (Cell) dh52@uakron.edu

EDUCATION:

Doctoral Degree in Statistics The University of Georgia, Athens, GA, May 2006.

Dissertation: Nonparametric Maximum Likelihood Estimation of Hazard Function and Survival Function Under Shape Restrictions

Master of Science in Statistics, the University of Georgia. Athens, GA, August 2003.

Masters of Science in Mathematics, Southern Illinois University, Carbondale, IL, August 2001.

Thesis: *P-values as Random Variables: Expected and Median P-values.*

Bachelor of Science in Mathematics (with distinction), University of Asmara, Eritrea, June 1996.

ACADEMIC EXPERIENCE:

Assistant Professor

August 2008- present, Assistant Professor, Department of Statistics, The University of Akron

Assistant Professor

August 2006- July 2008, Assistant Professor, Department of Mathematics, Georgia College and State University.

Visiting Assistant Professor

June 2006- August 2006, Department of Statistics, The University of Georgia.

Graduate Instructor,

2004-2006, Department of Statistics, The University of Georgia.

Graduate Teaching Assistant

2001-2004, Department of Statistics, The University of Georgia.

Graduate Teaching Assistant

1999-2001, Department of Mathematics, Southern Illinois University.

Teaching Assistant

1996-1999, Department of Mathematics and Statistics, University of Asmara, Eritrea.

AWADDO

AWARDS and Honors:

- Travel award to New Researchers in Statistics and Probability conference sponsored by IMS, 2010.
- R.L. Anderson student paper award in SRCOS/ASA summer conference, in Clemson, South Carolina, June 2005
- Outstanding Teaching Assistant Award, the University of Georgia, Athens, Georgia, 2003.
- Graduate Student Travel Award, University of Georgia (2005, 2006).
- Emanuel Family Scholarships University of Asmara, Eritrea, 1992-1996.
- United Nations Scholarship, University of Asmara, Eritrea, 1993-1996
- Three commendation letters from College Dean, University of Asmara, 1994-1996
- Government of Eritrea Undergraduate Scholarship, 1991-1996

PUBLICATIONS:

- Deciphering the epidemic synergy of herpes simplex virus type 2 (HSV-2) on human immunodeficiency virus type 1 (HIV-1) infection among women in sub-Saharan Africa, Journal of BioMed Center Research Notes 2012, doi:10.1186/1756-0500-5-451, joint with (M. G. Michael and E. Paintsil).
- One Sample Goodness of Fit Tests under Shape Restricted Alternative (2012), Sankhya B, available under Advanced Access, doi: 10.1007/s13571-011-0033-9, joint with Datta, S.
- NPD Project Portfolio, Environment, and Performance," (joint P. Srivastava, A. Dey and G. L. Frankwick), Peer reviwed proceeding, Association of Collegiate Marketing Educators' 39th Annual Conference, New Orleans, LA, March 2, 2012
- Nonparametric Estimation of Density and Hazard Rate Functions with Shape Restrictions (2011), Journal of Nonparametric Statistics, 23, Vol. 23 (2), 455–470, joint with M. Meyer
- Estimation of Hazard Functions with Shape Restrictions using Regression Splines (2010), Nonparametric Statistics and Mixture Models is a broad sample of peer- reviewed cutting-edge research. A Festschrift in Honor of Thomas P. Hettmansperger, pp 252-266. Editors Donald Richards, James L. Rosenberger, and David Hunter, joint with Meyer, M.

- Soil strength assessment using threshold probability approach on soils from three agroecological zones in Eritrea ((2007). Biosystems Engineering 470-478 Joint Tekste, M.Z, and L. Stroosnijder.
- Median of the P-value under the Alternative Hypothesis (2002), the American Statistician, Volume 56, Issue 3, Pages 202-207, joint with Bhaskar Bhattacharya.

- Modified Clopper-Pearson Confidence Interval for Binomial Proportion, joint with (C. Midha and A. Das) preprint
- Estimation of Linear Regression Models Using Central Subspace and Shape Restricted Regression (joint J. Park), preprint
- The Effect of Radical Innovation Mix on New Product Development Program Performance (joint with P. Srivastava, G. Frankwick and A. Dey) preprint
- Critical-state soil parameters of modified compression index and rebound index variability in unsaturated soil conditions on tropical soils. (joint with M. Tekste and L. Stroosnijder) preprint
- Nonparametric Estimation of Optimal Retention for Reinsurance under Tail Risk Criterion (joint D. Borowiak) preprint

DDECENIERADIONIC

PRESENTATIONS:

- Nonparametric Estimation of Hazard function in the presence of dependent censoring (JSM), San Diego, CA, August 2012.
- One sample goodness of fit tests under shape restricted alternative in the presence of dependen censoring, the University of Louisville, Louisville, KY, March 2012.
- One sample goodness of fit tests under shape restricted alternative when the censoring time and failure time are independent, The University of Akron, Feb 2012.
- Nonparametric Estimation of Linear Regression. Joint Statistical Meeting (JSM), Miami, FL, August 2011.
- Model based confidence Intervals for binomial proportion. Joint Statistical Meeting (JSM), Vancouver, BC, Canada, August 2010.

- Model base confidence interval for binomial proportion, Department of Mathematics, Charleston College, Charleston, SC, November, 2010
- Goodness of Fit Tests for Hazard Function under Shape Restrictions, Thirteenth Meeting
 of New Researchers in Statistics and Probability (NRC 2010), University of British
 Columbia, BC, Canada, July 2010.
- Goodness of Fit Tests for Hazard Function under Shape Restrictions, Joint Statistical Meeting (JSM), Washington, DC, August 2009.
- Testing for Shape Restricted Functions, Eastern North American Region/International Biometric (ENAR), Arlington, VA, March 2008.
- Estimation of Hazard Rate Function under Shape Restrictions, Central Michigan University, MI, February 2008.
- Introduction to Shape Restricted Regression, Georgia College and State University, November 2007.
- Estimation of Hazard Rate Function under Shape Restrictions, MAA Southeastern Sectional Meeting, Georgia Southern University, Statesboro, GA, March, 2007.
- Estimation of Hazard Rate Function under Shape Restrictions, Department of Biostatistics, University of Alabama, Birmingham, Al, June 2007.
- Estimation of Hazard Rate Function under Shape Restrictions, Joint Statistical Meeting (JSM), Seattle, WA, August 2006.
- Estimation of Hazard Rate Function under Shape Restrictions, Department of Mathematics, Georgia College and State University, Milledgeville, GA, March 2006.
- Graduate Student Seminar on 'Nonparametric Maximum Likelihood Estimation of Hazard Rate Function under Shape Restrictions', The University of Georgia, Athens, GA, November 2005.
- Poster presentation on "Nonparametric Maximum Likelihood Estimation of Hazard Rate Function under Shape Restrictions" At SRCOS Annual Research Conference in Statistics, Clemson, SC, June 2005.
- P-values as Random Variables: Expected and Median P-values, Joint Statistical Meeting (JSM), Minneapolis, MN, August 2005.

- November 2011, Seng Tan, Juay, Cumulative Multiple Freeze-Thaw Cycles and Testing Does Not Affect Subsequent Within Day Variation in Intervertebral Flexibility of Human Cadaveric Lumbosacral Spine
- October 2010- Decmber 2010, Asoke Dey and Debmalya Mukherjee Buyer -supplier partnership quality and firm performance: moderating role of risks, and environmental uncertainty.
- Jan 2010- Feb 2010, Jennifer Deck Bibevski, DVM, Ohio Veterinary Surgery and Neurology Metropolitan Veterinary Hospital. Project: A prospective study of computed tomography as the primary diagnostic modality in chondrodystrophic breeds presenting with acute neurologic signs.
- June 2004, Dr. Fessehaie Anania, Department of Plant Pathology, University of Georgia. Project: Biological control to protect watermelon blossoms and seeds from infection by Acidovorax avenae subsp. Responsibility: Design experiments and data analysis.
- February 2003-May 2003, Dr. Brewis, Alexandra, Department of Anthropology, University of Georgia. Project How does Marriage Pattern Affect the Life Course Trajectory of Coital Rate? Responsibility: Formulate Statistical model using SAS, explain analyses and write a report.
- May 2001, PhD student in Agricultural Engineering. Acoustic Compaction Layer Detection. Responsibility: Formulate Statistical model using Matlab and Maple, and explain analyses.
- May 1997- August 1997, UNICEF, Eritrea. Project: Schools rehabilitation and curricula development. Responsibility: Tabulation and data analysis.
- May 1995-Aug 1995, Office of the President of University of Asmara, Asmara, Eritrea.
 Responsibility: Tabulation planning, data analysis and administer tabulators.

TEACHING EXPERIENCE

• Department of Statistics, University of Akron

Stat 689, Capstone Course, Fall 2012. Stat 450/550, Probability, Fall 2012. Stat 260, Basic Statistics, Fall 2012.

Stat 450/550 Probability, Summer 2012. Stat 250, Statistics for Everyday Life, Summer 2012. Stat 401, Theoretical Statistics II, Spring 2012.

Stat 250, Statistics for Everyday Life, Spring 2012.

Stat 689 Capstone Course, Fall 2011.

Stat 401, Statistics and probability for Engineers, Fall 2011.

Stat 250, Statistics for Everyday Life (2 sections), Fall 2011.

Stat 689 Advanced Statistical Computing, Fall 2010.

Stat 401, Statistics and probability for Engineers, Fall 2010.

Stat 250, Statistics for Everyday Life (2 sections), Fall 2010.

Stat 250, Statistics for Everyday Life, Summer 2010.

Stat 481/581, Applied Statistics, Summer 2010.

Stat 670, Biostatistics, Spring 2010.

Stat 401, Statistics and probability for Engineers, Spring 2010.

Stat 250, Statistics for Everyday Life, Spring 2010.

Stat 250, Statistics for Everyday Life (2 sections), Fall 2009.

Stat 666, Nonparametric Statistical Methods, Summer 2009.

Stat 250, Statistics for Everyday Life, Spring 2009.

Stat 260, Basic Statistics, Spring 2009.

Stat 689/589, Advanced Statistical Computing, Spring 2009.

Stat 250, Statistics for Everyday Life, Fall 2008.

Stat 689, Survival Analysis, Fall 2008

Georgia College and State University

Math 2600, Statistics and Probability (2 sections), Summer 2008.

Math 2600, Statistics and Probability (2 sections), Spring 2008.

Math 1261 Calculus I, Spring 2008.

Math 2600, Statistics and Probability (2 sections), Fall 2007.

Math 1261, Calculus I (2 sections), Fall 2007.

Math 4999, Undergraduate research, Spring 2007.

Math 5620/4620, Mathematical Statistics II, Spring 2007.

Math 2600, Statistics and Probability (2 sections), Spring 2007.

Math 5600/4600, Mathematical Statistics I, Fall 2006. Math 2600, Statistics and Probability (2 sections), Fall 2006.

• University of Georgia

Stat 6230/4230 Applied Regression Analysis, Summer 2005.

Stat 6230/4230 Applied Regression Analysis, Spring 2005.

Stat 6230/4230 Applied Regression Analysis, Summer 2006.

Stat 4210, Statistical Methods I, Spring 2004.

• Southern Illinois University

Math 113 Intro Contemporary mathematics, Fall 2000.

MASTER'S THESIS OR PAPERS DIRECTED:

Department of Statistics, University of Akron Spring 2009

1. Pradeep Sharma

Topic: Analyzing Time Series Data using Shape Restricted Regression

Spring 2010

2. Samikisha Gupta

Topic: Statistical Quality Control for the Six Sigma

3. Whitney K. Hunag

Topic: Markov Chain Monte Carlo in Practice

Fall 2010

4. Alniemi, Fearase A

Topic: Interval Estimation for a Binomial Proportion and Comparison of Several Methods

5. Guo, Yun

Topic: A Random Coefficients Model for Longitudinal Gaussian Data

Spring 2011

6. En,Rong

Topic: Linear Mixed Model and its Application in Clinical Trials

7. Wilhem Gyassah

Topic: Analysis of Cluster and Correlated Data

8. Wen Zhang

Topic: Customer Lifetime Analysis using Cox Proportional Hazard Model

Summer 2011

9. You,Bin

Topic: Meta Analysis of different Studies

Fall 2011

10. Guo.Na:

Devising a prediction model using the surgeon's estimate and characteristics of the surgical team, the operation room and the patient situation

Spring 2012

11. Vittesh Sahni

Analysis of multivariate data using principal component, factor analysis and dimension reduction

Masters paper reader, for the following 11 students:

1.Gurpreet Kohli, 2. Tasha. L Preissler, 3. Rochack Vig, 4. Guang Sun, 5. Zachary Legg, 6. Fangyuan Zuo, 7. Hongyan Chen, 8. Megan Mellinger, 9. Brandon Rodgers, 10. Nicole Knapp and 11. Adam Russo.

• Georgia College and State University

Brandon Walker and Thomas Lewis, undergraduate students

Topic: Fitting Exponentiated Weibull distribution and generating samples using lower level languages such as C++.

RESEARCH INTERESTS:

• Survival Analysis, Biostatistics, Statistical Inferences (parametric and nonparametric), Permutation Test, Bootstrap Methods, Correlated Data, Mathematical Statistics Methodology and Application in Social and Behavioral science and Bio-Medical Science.

OTHER EXPERIENCE:

• Search Committee for Biostatistics positions, 2010, University of Akron

- Program Review Committee, Department of Statistics 2010, University of Akron
- Consulting Committee, Department of Statistics, 2009, University of Akron
- Tenure track promotion committee spring ,2006- 2008, Georgia College and State University
- Sara Nelson Scholarship Committee, fall 2006 –2008, Georgia College and State University
- Georgia College and State University Men Soccer club faculty advisor, fall 2007—2008
- 2003-2005, private tutor for different statistics courses at private owned tutorial service
- May 2004 Volunteer for the IISA (*International Indian Statistical Association*) Conference, Athens, GA.
- Serve as Volunteer coordinator, responsible for design teaching material for Sunday school lessons for high school students.
- 1997-1999, Staff member, graduate assistant and student advisor, Department of statistics, University of Asmara, Eritrea

Other Professional Activities:

- Chaired a session titled "Computational Issues in Survival Models, Biology, and Medicine" Section on Statistical Computing, at JSM, San Diego, CA, July 2012.
- Chaired a session titled "Bootstrapping, Resampling, and Ranking"
 Section on Statistical Learning and Data Mining, at JSM, San Diego, CA, August 2012.
- Chaired a session titled 'Time to Event Data Analysis', at Thirteenth Meeting of New Researchers in Statistics and Probability (NRC 2010), University of British Columbia, BC, Canada, July 2010.
- **Referee for** Journal of Applied Statistics and Lifetime Data Analysis

COMPUTER PROFICIENCY:

- Familiar with Minitab, Latex, Maple, JMP, and Mathematica
- Excellent large data management skills using SAS, S-plus, Matlab and SPSS
- Knowledgeable in the programming of C/C++, Java and Pascal
- Utilized Fortran 90 and R extensively.
- Platform Sun Solaris, Hp-Ux, IBM mainframe, Linux, and Ms-windows.

TEACHING INTERESTS:

• Courses in Biostatistics, Statistics, Statistical Computing and Mathematics.

RELEVANT COURSEWORK:

Statistical Programming in SAS, Biostatistics, , Survival Analysis, Computing Techniques in Statistics I, Computing Techniques in Statistics II, Advanced Applications and Computing, Supervised Statistical Consulting, Environmental Statistics, Design of Experiments for Research Workers, Multivariate Analysis, Applied Nonlinear Regression, Theory of Linear Models, Advanced Statistical Inference, Generalized Linear Model, Measure Theory, Real Analysis, Asymptotic Inference and Time Series Analysis.

PROFESSIONAL MEMBERSHIP:

- IMS (Institute of Mathematical Statistics)
- ASA (American Statistical Association)
- American Mathematical Society (1999-2002)
- Member, Kappa Mu Epsilon, National Mathematics Honor Society, inducted, 2002

BOOK REVIEWS:

Pre-calculus and college algebra, First Edition, by Ghidei Zedingle, Adulis printing press, Asmara, Eritrea, 1998. Prepared solution for the manuscripts for Pre-calculus and college algebra

1	Pei	ren	na	ı

Hobbies: Soccer, cycling, running and table tennis.
