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CURRICULUM VITA

ACADEMIC PREPARATION AND HONORS

PhD, Mathematics; University of California, San Diego **2004**
Recipient: Eugene Cota Robles Fellowship

B.S., Mathematics and Physics; CSU Long Beach **1998**
Departmental Distinction; McNair Scholar

PROFESSIONAL EXPERIENCE

California State University, Long Beach
Assistant Professor, Department of Mathematics and Statistics **Fall 2005-Present**

University of California, Riverside
Visiting Assistant Professor, Department of Statistics **2004-2005**

UC San Diego Dept. of Mathematics, Teaching Assistant **1998-2004**

CSULB Learning Assistance Center, Tutor **1997-1998**
CSULB Summer Bridge Program, Tutor **1998**

ACADEMIC AWARDS AND HONORS

Eugene Cota Robles Fellowship **1998-2000**

Favorite Professor, CSULB Graduating Senior **2008, 2012**

TEACHING

Courses Taught (CSULB)

*Mathematics, Lower Division

Math 113-College Algebra

Math 119A-Calculus for Life Science Majors

Math 122-Calculus I

Math 123-Calculus II

Math 224-Calculus III

Math 247-Linear Algebra

*Mathematics, Upper Division

Math 361A-Real Analysis

*Statistics, Lower Division

Stat 108-Statistics for Everyday Life

*Statistics, Upper Division

Stat 380-Probability

Stat 381-Mathematical Statistics

Stat 410-Regression Analysis

Stat 482-Stochastic Processes

*Statistics, Masters

Stat 510-Regression Analysis

Stat 520-Statistical Inference

Stat 540-Survey Sampling

Stat 560-Nonparametric Statistics

Stat 497/697: Independent study students, selected			
Term	Student(s)	Topic of study	Current information
Fall 2009 (697)	Ha Dang	Modeling Menieres Disease with Survival Analysis	USC Biostatistics PhD Graduate
Fall 2010 (697)	Jeff Lea	Nonparametric kernel estimation	Employed (Accounting)
Fall 2010 (697)	Danton Noriega	Nonparametric kernel estimation	Duke Public Policy PhD Program
Spring 2013 (697)	Issam Mayasi	Predicting Company Sales with Time Series	Intuit Analytics
Spring 2015 (697)	Tony Molina	Extreme value theory applications in engineering	CSULB Applied Statistics Masters Program
Spring 2017 (697)	Elka Lacno, Pablo Chavarria	Introduction to Extreme Value Theory	CSULB Applied Statistics Masters Program

Masters Thesis/Project students		
Term	Student(s)	Topic
Summer 2007	Dean Barron	Kolmogorov Smirnov Enhancement (Thesis)
Spring, Summer 2009	Shaun Byrne	A Comparison Of Continuous Turbulence and Statistical Discrete Gust for the Development of Aircraft Design Loads (Project)
Fall 2008-Spring 2009	John Dunham	Can large earthquakes be predicted by evaluation of accelerated moment release? (Project)
Spring 2009-Spring 2010	Ha Dang	The Cumulative Incidence Estimate Versus the Kaplan Meier Method in Medical Research (Project)
Fall 2016-Summer 2017	Octavio Urista	Using Machine Learning Methods To Predict NFL Victors
Spring 2015-Present	Tony Molina	Extreme value theory applications in engineering
Fall 2017-Present	Pablo Chavarria	Reduction of Confidence Interval Length for Small-Normal Data Sets Utilizing Bootstrap and Conformal Prediction Methods
Fall 2017-Present	Michael Sims	Improving First Time Freshman Graduation Rates: An Essential Classification Problem

Masters Thesis/Project Committee Member- George Chen, Fudjie Yota, Krystal Santiago, Daniel Feldman, Elisabeth McIlvaine, Donna Russo, Matt Koutroulis, Linh Tran, Huy Nguyen, Roger Espinosa, Greg Poppe, Francisco Romero, Li Yang, Kristina Dill, Che Wankie, Huy Nguyen, James Braggs, Dave Delaney, Lizet Tirres, Dennis Nyongesa, Jaime Aclander, Melanie Levy, Geoff Kent, Michael Ruffin, Jason Edwards, Martha Nava, Joanna Leack, Hien Nguyen, Ming Cong

RESEARCH

Publications

Student performance and attitudes in a collaborative and flipped linear algebra course. With Jen-Mei Chang and Julia Murphy. International Journal of Mathematical Education in Science and Technology. Volume 47, Issue 5, pg. 653–673, 2016.

On the asymptotic distribution of an alternative measure of kurtosis. International Journal of Advanced Statistics and Probability 3, no. 2 (2015): 161-168

The shortest distance in data analysis. with Safer, A., and Watson, S. Missouri Journal of Mathematical Sciences 23, no. 2 (2011): 151-158.

Variable bandwidth kernel density estimation for censored data. Journal of Statistical Theory and Practice 5, no. 2 (2011): 221-229.

Bootstrap bandwidth selection for a smooth survival function estimator from censored data. with Berg, A. Journal of Statistical Research 44, no. 2 (2010): 207.

An alternate mean squared error computation for a censored data kernel density estimator, Journal of Applied Probability and Statistics. 3 287-297 (2008).

Bias reduced nonparametric hazard rate estimation, with Berg A., and Politis, D. Submitted to Journal of Nonparametric Statistics.

Talks

Identifying Significant Predictors for Student Success in Lower Division Mathematics Courses, CSULB Faculty Research Symposium, March 13, 2015

Simulating Censored Data in R, Vanderbilt University, June 10, 2012

A New Trick for the Old Dog of Survival Analysis. SDSU, April 17, 2009 (Invited)

Smooth Survival Function Estimation with Applications to Cox Regression, poster presentation, Univ. Of Florida Winter Workshop on Semiparametric Methods, Jan 2009

Change we can Believe in: Innovations in Survival Function Estimation, UC Riverside, Nov 2008 (Invited)

Survival Function Estimation : A Feasible Alternative, 7th Annual Hawaii International Conference on Mathematics, Statistics, and Related Fields, Jan 2008

Censored : A Controversial Topic in Statistical Data Analysis, CSU Los Angeles, Jan 2006 (Invited)

Referee

Analysis of Heart Transplant Survival Data Using Generalized Additive Models, by Tsujitani, M. and Tanaka, Y. Submitted to Computational and Mathematical Methods in Medicine, Fall 2012

Uniform asymptotics for kernel density estimators with variable bandwidths by Gine, E. and Sang, H., to appear in the Journal of Nonparametric Statistics, Fall 2009

Consulting/Projects

UC/CSU Mathematics Diagnostic Testing and Placement (MDTP) Workgroup	2015-Present
Business of Success Beyond Sports (B.O.S.S.) Mathematics Component	2015-Present
CSU Promising Course Redesign (Calculus I)	2013-2015
CSU Entry Level Hybrid Lab Consortium (College Algebra)	2013-2015
National Primary School Textbook Programme, Belize	2013
Healthcare Consultants Medi-Cal Eligibility Study	2007
Open Door Home Care Attendant Survey	2006
CSULB Department of Mathematics and Statistics Student Survey	2006
CSU System Campus Library Book per Student Ratio Study	2006

SERVICE

CSULB Mathematics Special Service

Graduate Advisor, Applied Statistics	2017-Present
EO1100/1110 General Education Redesign	2017-Present
Mathematics Education Hiring Committee	2015-2016, 2016-2017
Post Tenure Review: Yonghee Kim-Park, William Ziemer, Norma Noguera (Chair)	2013, 2015
Math 122 Common Finals Project	Fall 2012
Applied Mathematics Hiring Committee	2013-2014
Statistics Hiring Committee	2010-2011

CSULB Mathematics Committees

Comprehensive Exam, Statistics	2012-2013
Statistics	2011-2012
Calculus, Comprehensive Exam, Statistics	2010-2011
Colloquium, Comprehensive Exam, Graduate, Statistics	2009-2010
Comprehensive Exam, Undergraduate, Statistics	2008-2009
Colloquium, Comprehensive Exam, Graduate, Statistics	2007-2008
Colloquium, Comprehensive Exam, Graduate, Statistics	2006-2007
Colloquium, Curriculum, Statistics	2005-2006

Other CSULB Service

CSULB Data Fellows Program	Fall 2015-Spring 2017
CNSM Grade Appeals Committee	Fall 2015-Spring 2016
CSULB Upward Bound Math Science Interim Director	Sep 2010-Jan 2013
Long Beach Promise Faculty Symposium	Dec 2011
CSULB Upward Bound Math Science Academic Coordinator	Jan 2010-Sep 2010
CSULB Faculty in Residence	June 2006-June 2009; June 2017-Present

Professional Development

CNSM Faculty Learning Community	Fall 2015-Spring 2016
CNSM Learning Outcomes Workshop	Spring 2015
Scholarly Writing Institute	

Invited Speeches

<i>Sports Analytics for Student Athletes</i> , Business of Success Beyond Sports (B.O.S.S.) Program	July 27, 2015
Panelist, Dominguez High School Career Day, Compton, CA	May 19, 2010
Keynote Speaker, CSULB Upward Bound annual awards ceremony	June 2, 2009

McNair Scholars convocation, CSULB **May 8, 2009**
Student Services Division annual staff meeting, CSULB **October 24, 2008**
Panelist, Rialto Unified School District African American Male Youth Education Summit
November 3, 2007
Keynote Speaker, Legacy Summer Program, UC Riverside **August 3, 2007**
Keynote Speaker, Step Up Youth College Prep Conference, UC Riverside
November 5, 2005
Keynote Speaker, Step Up Youth College Prep Conference, Pasadena City College
September 24, 2005
Panelist, Young Black Scholars Retreat, UC Riverside **August 23, 2005**
Panelist, California Forum for Diversity in Graduate Education, San Diego, CA
April 9, 2005

Media Exposure

“McNair Scholars Give Back”
Beach Review, Spring 2010

“Faculty on Campus Housing to Improve”
<http://www.daily49er.com/2.292/faculty-on-campus-housing-to-improve-1.93971>
Daily 49er, October 1, 2006

“Former McNair Scholars Giving Back as Profs”
<http://www.csulb.edu/misc/inside/archives/v58n12/13.htm>
Inside CSULB, December 2006

“McNair Scholars Soar”
http://www.csulb.edu/misc/inside/archives/vol_58_no_4/10.htm
Inside CSULB, April 2006