

# CURRICULUM VITAE

## DR. OLGA KOROSTELEVA

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### Work Experience

- Associate Professor, *Department of Mathematics and Statistics, CSULB, Long Beach, CA, Aug 2009 – present*
- Assistant Professor, *Department of Mathematics and Statistics, CSULB, Long Beach, CA, Aug 2002 – July 2009*

### Consulting Experience

- Eyesonix, *Long Beach, CA, May 2010 – present*
- Neomend, *Irvine, CA, Aug 2010 – present*
- Pegasus Biologics (presently Synovis Orthopedic and Woundcare), *Irvine, CA, Feb 2009 – present*
- EMT Associates, Inc., *Encino, CA, Sept 2008 – present*
- VA Hospital, *Long Beach, CA, Sept 2008 – present*
- CSULB Center for Health Care Innovation, *Aug 2008 – present*
- 3F Therapeutics Inc., *Lake Forest, CA, Dec 2002 – Dec 2004*

### Education

- Ph.D. in Statistics, *Department of Statistics, Purdue University, West Lafayette, IN, May 2002*
- M.S. in Statistics, *Department of Statistics, Purdue University, West Lafayette, IN, Dec 1999*
- B.S. in Mathematics, *Department of Mathematics, Wayne State University, Detroit, MI, May 1996*
- Unfinished undergraduate studies, *Moscow Electronic Engineering Institute, Moscow, Russia, Sept 1991 – May 1994*

### Publications

- **BOOKS**
- Korostelev, A. and O. Korosteleva (2011). *Mathematical Statistics: Asymptotic Minimax Theory*, American Mathematical Society, Graduate Studies in Mathematics, Volume 119.

- Korosteleva, O. (2009). *Clinical Statistics: Introducing Clinical Trials, Survival Analysis, and Longitudinal Data Analysis*, Jones and Bartlett Publishers, Inc.

## • PAPERS

### Published

- Britt Rios-Ellis, Ana C. Canjura, Melawhy Garcia, Olga Korosteleva, Selena Nguyen-Rodriguez, Lilia Espinoza, Mara Bird, and C. Kevin Malotte (2011). “Rompe el Silencio: Break the Silence - Increasing Sexual Communication in Latina Intergenerational Family Dyads.” *Hispanic Health Care International* **9**, no. 4, 174-185
- Hanin, L. and O. Korosteleva (2010). “Does Extirpation of the Primary Tumor Give Boost to Growth of Metastases? Evidence Revealed by Mathematical Modeling”, *Mathematical Biosciences* **223**, 133 – 141
- Korostelev, A. and O. Korosteleva (2004). “Spread of Branching Diffusion: Sharp Asymptotics”, *Stochastics and Stochastics Reports* **76**, no. 6, 509 – 516
- Korosteleva, O. (2004). “The Spread of Branching Diffusion under Stabilizing Drift”, *Stochastics and Stochastics Reports* **76**, no. 3, 179 – 189
- Korosteleva, O. and S. Lototsky (2003). “Comment on Derivation of Sample Size Requirements for Evaluating Heart Valves with Constant Risk Events”, *Journal of the Heart Valve Disease* **12**, no. 5, 668-669
- Pomerantsev, L. and O. Korosteleva (2003). “Do Prospective Elementary and Middle School Teachers Understand the Structure of Algebraic Expressions?” *Issues in the Undergraduate Mathematics Preparation of School Teachers: The Journal 1: Content Knowledge* (electronic)
- Korostelev, A. and O. Korosteleva (2003). “Limit Theorem for the Spread of Branching Diffusion with Stabilizing Drift”, *Stochastic Analysis and Applications* **21**, no. 3, 611 – 641

### Submitted

- DePaolo, C., Barakat, M. and O. Korosteleva. “Equine Pericardial Tissue Augmentation of Surgical Repair of Chronic Full -Thickness Rotator Cuff Tears: Retrospective Evaluation with Prospective Follow- up”
- Daniel Lee, Shane Hollawell, Stephen Barrett, John Brunelle, Olga Korosteleva, and Mark Barakat.”Bioimplant Augmentation in the Foot and Ankle: A Multi-center Retrospective Study”
- Laura Hoyt D’Anna, Olga Korosteleva, Lee Warner, John Douglas, Sindy Paul, Carol Metcalf, Elizabeth McIlvaine, C. Kevin Malotte, and the RESPECT-2 Study Group “Factors Associated with Condom Breakage/Slippage or Partial Use During Vaginal Sex with Main and Non-Main Partners”
- D’Anna, LH, Margolis, AD, Warner L, Korosteleva, OA, O’Donnell L, Rietmeijer CA, Klausner J, Malotte CKand the Safe City Study Group “AIDS Impact Special Issue: Condom Use Problems During Anal Sex Among Men Who Have Sex With Men (MSM):

### Findings From the Safe in the City Study”

- Bitu Ghafoori, Belen Barragan, Lawrence Palinkas, Olga Korosteleva “Gender disparities in the mental health of urban survivors of trauma and violence: Does social disadvantage and level of trauma exposure matter?”

## Proposals (not funded)

- CSULB Scholarly and Creative Activities Awards 2012-2013, *Sept 2011*
- Biostatistician, National Institute of Health (NIH), Title: “The efficacy of acupuncture for posttraumatic stress disorder (PTSD)”, PI: Dr. M. Hollifield, VA Hospital, Long Beach, *2011*
- Biostatistician, National Psoriasis Foundation, Title: “Defining Psoriasis Remission”, PI: Dr. Francis Dann, VA Hospital, Long Beach, *2010*
- Biostatistician, Title: “The Effect of TNF-alpha Blockade by Etanercept on Myocardial Infarction and Mortality in Psoriasis”, PI: Dr. Francis Dann, VA Hospital, Long Beach, *2010*
- Co-investigator, National Institute on Child Health and Human Development. Title: “Interventions to Reduce Sexual Risk in Mexican-American Female Adolescents,” PI: Dr. Kevin Malotte, Center for Health Care Innovation, CSULB, *May 2006; Jan 2009*
- Co-PI, California Program on Access to Care, California Policy Research Center of the University of California. Title: “The Impact of Health Plan and other Socio-demographics on Quality of Health Care for California’s Adults, Adolescents, and Children,” PI: Dr. Cynthia Sanders, Department of Health Care Administration, CSULB, *Dec 2005*
- CSULB Scholarly and Creative Activities Awards 2006 – 2007, *Sept 2005*
- Co-PI, California Program on Access to Care, California Policy Research Center of the University of California. Title: “Exploring Ethnicity: Health Access and Health Status for Adults of Hispanic and Asian Origin,” PI: Dr. Cynthia Sanders, Department of Health Care Administration, CSULB, *Nov 2003*
- Co-PI, National Science Foundation, Teachers Professional Continuum, Professional Resources Development. Title: “Teaching Algebraic Language to Prospective Teachers: A Structural Approach,” PI: Dr. Lucy Pomerantsev, Department of Mathematics, CSULB, *May 2003*

## Awards

- Multidisciplinary Research Award, California State University, Long Beach, 2011 (3-unit teaching release)
- Scholarly and Creative Activities Committee (SCAC) Assigned Time award for Spring 2006 (3-unit teaching release)
- Outstanding Graduate Teaching Assistant Award, Purdue University, 1999

## Fellowships

- ExxonMobil Project NExT Fellowship 2003 –2004  
Project NExT (New Experiences in Teaching) is a program for new or recent Ph.D.s in the Mathematical Sciences interested in improving the teaching of undergraduate mathematics.

## University Service

- Co-founder, Statistics Student Association, *Sept 2010-present*
- Member, College Grade Appeals Committee, *Oct 2009 – May 2010*
- Secretary, Undergraduate Committee, *Aug 2009 – May 2010*
- Secretary, College of Natural Sciences and Mathematics Council, *Aug 2009 – May 2011*
- Presenter, Greek Penmanship Workshop, *Department of Mathematics and Statistics, CSULB*
  - *Mar 3, 2009* (1 presentation)
  - *Feb 19, 2009* (1 presentation)
  - *Feb 9-10, 2009* (4 presentations)
  - *Nov 17-18, 2008* (6 presentations)
- Member, Pure Math Committee, *Fall 2006*
- Secretary, Undergraduate Committee, *Fall 2006*
- Founder, Math and Stat Student Association, *Aug 2003*
- Editor, Math Club Newsletter, *Aug 2003 – May 2004*
- Member, Statistics Committee, *Aug 2002 – present*
- Member (or Chair), Comprehensive Examination Committee, Experimental Design and Analysis, *Dec 2002 – Feb 2009*

## Courses Taught

STAT 108	<i>Statistics for Everyday Life</i>	Fall'09,'10, Sum'11
MATH 114	<i>Finite Math</i>	Spr'04,'08, Fall'04
MATH 247	<i>Introductory Linear Algebra</i>	Spr'06
STAT 380	<i>Probability and Statistics</i>	Spr'03,'05,'06, Fall'02,'06
STAT 381	<i>Mathematical Statistics</i>	Spr'05,'08,'09, Fall'02,'06
STAT 410	<i>Regression Analysis</i>	Spr'06,'09, Fall'09
STAT 450	<i>Multivariate Statistics</i>	Spr'05,'09,'10,'11
STAT 475	<i>Data Analysis with SAS</i>	Fall'10,'11
STAT 482	<i>Random Processes</i>	Fall'03,'04
STAT 484	<i>Actuarial Science: Models</i>	Sum'06, Spr'10
STAT 485	<i>Actuarial Science: Financial Math</i>	Spr'11
STAT 497	<i>Undergraduate Directed Studies</i>	Fall'03, Spr'04,'05,'10
STAT 510	<i>Regression Analysis</i>	Spr'06,'09, Fall'09
STAT 520	<i>Statistical Inference</i>	Spr'08, W'09
STAT 530	<i>Experimental Design and Analysis</i>	Spr'08,'09, Fall'04,'06,'08
STAT 532	<i>Quality Control</i>	Fall'03
STAT 540	<i>Survey Sampling</i>	Spr'10

STAT 544	<i>Statistical Consulting</i>	Sum'08
STAT 550	<i>Multivariate Statistics</i>	Spr'05,'09,'10,'11
STAT 590	<i>Statistical Analysis of Medical Data</i>	Fall '08,'09,'10,'11
STAT 695	<i>Models Beyond Linear Regression</i>	Spr'11
STAT 697	<i>Graduate Directed Studies</i>	Fall'03,'08,'09, Spr'04,'06,'08,'09,'10
STAT 698	<i>Master's Thesis or Project</i>	Fall'06,'08,'09,'10, Spr'08,'09,'10

## Master's Thesis Students

- Donna Russo, title "*Models of Cancer: Onset Time, Size of Primary Tumor, and Metastases Proliferation*", May 2010
- Moshe Katan, title "*Violation of Assumptions in Linear Regression Model: Regressions as Remedial Measures*", Dec 2006

## Professional Talks

- Title: "Does Extirpation of the Primary Tumor Give Boost to Growth of Metastases? Evidence Revealed by Mathematical Modeling", 3<sup>rd</sup> *Southern California Women in Mathematics Symposium, Pomona College, Claremont, CA, Nov 20, 2010*
- Title: "Bayesian Monitoring of Clinical Trials: Heart Valve Example", 1<sup>st</sup> *Southern California Women in Mathematics Symposium, Loyola Marymount University, Los Angeles, CA, Apr 25, 2009*
- Title: "Bayesian Approach to Clinical Trials", *Edwards Lifesciences, Irvine, CA, Feb 23, 2009*
- Title: "Spread of Branching Diffusion Under Stabilizing Drift"
  - Mathematics Colloquium, Department of Mathematics, *California State University, San Bernardino, May 2008*
  - USC Women in Math Seminar, *Department of Mathematics, University of Southern California, Los Angeles, CA, Apr 2008*
  - Probability Seminar, *Department of Statistics, University of Michigan, Ann Arbor, MI, Apr 2007*
  - Research Colloquium, *Department of Statistics, UCR, Riverside, CA, Sept 2004*
  - Mathematics Department Colloquium, *Cal Poly Pomona, CA, Oct 2003*

## Conferences Attended

- Panelist, Academic Panel, 2011 Statistics Careers Day, *City of Hope National Medical Center, Duarte, CA, Apr 23, 2011*
- SCASA Applied Statistics Workshop (ASW) 2011, *CSULB, Apr 9, 2011*
- 3<sup>rd</sup> Annual Southern California Women in Mathematics Symposium, *Pomona College, Claremont, CA, Nov 20, 2010*

- 21<sup>st</sup> Annual Long Beach Research Symposium, *California State University, Long Beach, CA, Nov 12, 2010*
- Summer Institute on Longitudinal Research & National Drug Abuse Treatment Clinical Trials Network (CTN) Dissemination Conference, *Marina del Rey, CA, Aug 9-11, 2010*
- 1<sup>st</sup> Annual Southern California Women in Mathematics Symposium, *Loyola Marymount University, Los Angeles, CA, Apr 25, 2009*
- 19th Annual Long Beach Research Symposium, *VA Medical Center, Long Beach, CA, Nov 14, 2008*
- Annual Southern California ASA Fall Kick-Off, *University of California, Irvine, Nov 1, 2008*
- OCTANe's 3rd Annual California Medical Device Forum, *Westin South Coast Plaza, Costa Mesa, CA, Oct 29, 2008*
- Summer Institute on Longitudinal Research, Center for Advancing Longitudinal Drug Abuse Research (CALDAR), *UCLA, Los Angeles, CA, Aug 13-15, 2008*
- SCASA's 27th Annual Workshop in Applied Statistics, *CSULB, Mar 28, 2008*
- SCASA Careers Day in Statistics, *City of Hope National Medical Center, Duarte, CA, Mar 1, 2008*
- SCASA's 24th Annual Workshop in Applied Statistics, *CSULB, Apr 29, 2005*
- Southern California Probability Symposium, *USC, Los Angeles, CA, Nov 21, 2004*
- SCASA's 23<sup>rd</sup> Annual Workshop in Applied Statistics, *CSULB, May 1, 2004*
- Southern California Probability Symposium, *UCLA, Los Angeles, CA, Nov 23, 2003*
- Southern California American Statistical Association (SCASA) and Reed Institute for Decision Science, 5<sup>th</sup> Annual Workshop on Consulting and Collaboration, *Claremont McKenna College, Claremont, CA, Nov 15, 2003*
- Southern California Chapter of Project NexT Workshop, *Pomona, CA, Oct 4, 2003*
- Southern California-Nevada Section of MAA Meeting, *Pomona, CA, Oct 4, 2003*
- MathFest 2003 Meetings of the Mathematical Association of America (MAA), *Boulder, CO, July 31 – Aug 2, 2003*
- Project NExT 2003-04 Summer Workshop, *University of Colorado, Boulder, CO, July 28 – 30, 2003*

## Professional Activities

- Reviewer for Mathematical Reviews, American Mathematical Society, *Apr 2005 – present*

## Community Service

- Co-website master, Southern California Chapter of American Statistical Association (SCASA) website, *Mar 2010 – present*
- Chair, Southern California Chapter of American Statistical Association (SCASA) Applied Statistics Workshop (ASW) organizing committee, *Oct 2010 - present*

- Presenter, Greek Penmanship Workshop, *College Ready Academy #5, Los Angeles, CA, Mar 10, 2009*
- Presenter, High School Outreach Presentation titled “Statistics: Past, Present, and Future”, *AP Statistics class*,
  - *Santa Margarita Catholic High School, Santa Margarita, CA, Dec 11, 2008*
  - *Century High School, Santa Ana, CA, Dec 9, 2008*
  - *Vistamar School, El Segundo, CA, Dec 8, 2008*
- Database Manager, Southern California Chapter of American Statistical Association (SCASA), *Oct 2008 – present*
- Member, Applied Statistics Workshop organizing committee, *Oct 2008 – present*
- Member, Math Day at the Beach Organizing Committee, *Mar 2004, 2005*
- Co-coach, ARML (American Regional Mathematics League) team of high-school students, *Oct 2002 – Dec 2003*
- Speaker, 1<sup>st</sup> Annual Math and Science Career Conference, American Association of University Women, Long Beach Branch, *Long Beach City College, May 2003*