

Elisa F. Long

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ACADEMIC POSITIONS

Yale School of Management, New Haven, CT
Assistant Professor of Operations Management, 2008-present

EDUCATION

Stanford University, Stanford, CA
Ph.D. Management Science and Engineering, 2008
Dissertation: “Economic Analysis of Preventive and Therapeutic HIV Interventions”

Stanford University, Stanford, CA
M.S. Management Science and Engineering (Economics and Finance), 2005

Cornell University, Ithaca, NY
B.S. Operations Research and Industrial Engineering (Magna Cum Laude), 2003

HONORS AND AWARDS

Stanford University Distinguished Alumni Scholar Award, 2010

Lee B. Lusted Award for Best Student Oral Presentation, Society for Medical Decision Making 27th Annual Meeting, 2005

Seth Bonder Award for Applied Operations Research in Health Services, INFORMS, 2005

Cortland and Jean Van Rensselear Graduate Fellowship, Stanford University, 2003

Merrill Presidential Scholar (top 1% of graduating class), Cornell University, 2003

Ormond Scholar (Highest Honors), University of Melbourne, Australia, 2002

Lockheed Martin Engineering Scholar Award, Cornell University, 2001

REFEREED PUBLICATIONS

1. **Long EF**, Brandeau ML, Owens DK. “The Cost-Effectiveness and Population Outcomes of Expanded HIV Screening and Antiretroviral Treatment in the United States”, *Annals of Internal Medicine*, 2010, 153(12):778-89.
2. Kaimal AJ, Little SE, Odibo AO, Stamilio DM, Grobman WA, **Long EF**, Owens DK, Caughey AB. “Cost-Effectiveness of Elective Induction of Labor at 41 Weeks in Nulliparous Women”, *American Journal of Obstetrics and Gynecology* (in press), 2010.

3. **Long EF**, Brandeau ML, Owens DK. “Potential Population Health Outcomes and Expenditures of HIV Vaccination Strategies in the United States”, *Vaccine*, 2009, 27(39):5402-10.
4. **Long EF**, Brandeau ML. “OR’s Next Top Model: Decision Models for Infectious Disease Control” In *Tutorials in Operations Research*, Gray P (Ed.), Institute for Operations Research and Management Sciences (INFORMS), 2009.
5. Patil CG, **Long EF**, Lansberg MG. “Cost-Effectiveness Analysis of Mechanical Thrombectomy in Acute Ischemic Stroke”, *Journal of Neurosurgery*, 2009, 110(3):508-13.
6. **Long EF**, Vaidya NK, Brandeau ML. “Controlling Co-epidemics: Analysis of HIV and Tuberculosis Infection Dynamics”, *Operations Research*, 2008, 56(6):1366-81.
7. Brandeau ML, **Long EF**, Hutton DW, Owens DK. “Optimal Spending on HIV Prevention and Treatment: A Framework for Evaluating the Cost-Effectiveness of HIV Prevention and Treatment Programs with Example Application to the India AIDS Initiative”, In *Optimization in Medicine and Biology*, Lim GJ and Lee EK (Eds.), Taylor and Francis Publishers, 2008.
8. **Long EF**, Brandeau ML, Galvin CM, Vinichenko T, Tole SP, Schwartz A, Sanders GD, Owens DK. “Effectiveness and Cost-Effectiveness of Strategies to Expand Antiretroviral Therapy in St. Petersburg, Russia”, *AIDS*, 2006, 20:2207-15.

OTHER PUBLICATIONS

1. Caughey AB, Sundaram V, Kaimal AJ, Cheng YW, Gienger A, Little SE, Lee JF, Wong L, Shaffer BL, Tran SH, Padula A, McDonald KM, **Long EF**, Owens DK, Bravata DM. “Maternal and Neonatal Outcomes of Elective Induction of Labor”, Evidence Report/Technology Assessment No. 176. (Prepared by the Stanford University-UCSF Evidenced-based Practice Center). *Agency for Healthcare Research and Quality (AHRQ)* Publication No. 09-E005, 2009.
2. Brandeau ML, Chaudry JR, **Long EF**, Owens DK. “Evaluating the Cost Effectiveness of the India AIDS Initiative: A Blueprint”, Global Health Policy Research Network report, 2004.

WORKING PAPERS

1. **Long EF**. “Cost-Effectiveness of Acute HIV Screening: Fourth-Generation Antigen-Antibody versus Pooled Nucleic Acid Amplification Test” (under review), 2010.
2. Alistar SS, **Long EF**, Brandeau ML, Beck EJ. “Allocating Resources for HIV Prevention and Treatment Program Scale Up” (under review), 2010.
3. **Long EF**, Owens DK. “The Cost-Effectiveness of a Modestly Effective HIV Vaccine in the United States” (under review), 2011.
4. **Long EF**, Stavert RR. “A Portfolio Approach to HIV Control in South Africa” (working paper), 2010.

5. Patel A, Lazova R, **Long EF**, Knoll B, Forman HP, Ariyan S. "The Economic Value of Shave Biopsy for Basal Cell Carcinoma" (working paper), 2009.

WORK IN PROGRESS

1. "Improving Patient Flow in the Pediatric Emergency Department", 2010 (with Lei Chen, Donald Lee).
2. "Cost-Effectiveness of Premarital HIV Screening in India", 2010 (with Alison Galvani, Jennifer Gilbert).
3. "Mathematical Modeling of Partially Effective HIV Vaccines in the United States", 2010 (with Kyeen Andersson, Robert Chen, John Glasser, et al).
4. "Stochastic Network versus Deterministic Models of Sexual Behavior Risk Compensation", 2010.
5. "HIV Treatment of Immigrants in Sub-Saharan Africa", 2010 (with Adam Schwartz, Greg Bisson).
6. "Risk Behavior Reduction among HIV+ Drug Users in New Haven, CT", 2010 (with Frederick Altice, Michael Copenhaver).
7. "The Optimal Allocation of HIV Prevention Resources in Botswana", 2010 (with Benjamin Armbruster, David Hutton).

INVITED TALKS

- New York University, School of Medicine, New York, NY, December 2010
- Yale University, School of Public Health, New Haven, CT, November 2010
- London Business School (Innovation in Operations Conference), London, United Kingdom, June 2010
- Coast Guard Academy, New London, CT, April 2009

CONFERENCE PRESENTATIONS

- "The Cost-Effectiveness of Acute HIV Screening in the United States"
 - 17th Conference on Retroviruses and Opportunistic Infections (CROI), San Francisco, CA, February 2010
 - INFORMS Annual Meeting, Austin, TX, November 2010
- "A Tale of Two Models: Health Benefits and Costs of HIV Vaccination in the United States"
 - Manufacturing and Service Operations Management Annual Conference, Haifa, Israel, June 2010
 - AIDS Vaccine 2010 Conference, Atlanta, Georgia, September 2010
 - INFORMS Annual Meeting, Austin, TX, November 2010

- “How Effective is Comparative Effectiveness?”
- Yale University Healthcare Conference, New Haven, CT, April 2010
- “Cost-Effectiveness of Alternative HIV Intervention Portfolios in South Africa”
- Society for Medical Decision Making Annual Meeting, Hollywood, CA, October 2009
- “OR’s Next Top Model: Decision Models for Infectious Disease Control”
- INFORMS Annual Meeting, San Diego, CA, October 2009
- “Economic Evaluation of HIV Interventions: Expanded Screening versus Treatment”
- INFORMS Annual Meeting, Washington, DC, October 2008
- Society for Medical Decision Making Annual Meeting, Philadelphia, PA, October 2008
- “The Cost-Effectiveness of Alternative HIV Vaccination Strategies among U.S. Risk Groups”
- INFORMS Annual Meeting, Seattle, WA, November 2007
- Society for Medical Decision Making Annual Meeting, Pittsburgh, PA, October 2007
- “Optimal Allocation of HIV Prevention and Treatment Resources”
- INFORMS Annual Meeting, Seattle, WA, November 2007
- Society for Medical Decision Making Annual Meeting, Pittsburgh, PA, October 2007
- “The Cost-Effectiveness of Expanding Antiretroviral Therapy in Russia”
- 14th International Conference on AIDS, Cancer, and Public Health, St. Petersburg, Russia, May 2005
- Society for Medical Decision Making Annual Meeting, San Francisco, CA, October 2005
- Operating on Health Care: An Operations Research Symposium, Vancouver, Canada, August 2007
- Harvey Mudd Conference on Public Sector Operations Research, Los Angeles, CA, September 2007
- “Evaluating the Cost-Effectiveness of Expanding Antiretroviral Therapy (ARV) in Russia and the Effect of Reduced ARV Price”
- 16th International Conference on AIDS, Cancer, and Public Health, St. Petersburg, Russia, May 2007
- “Mathematical Modeling of Infectious Disease Co-epidemics: HIV and Tuberculosis in India”
- INFORMS Annual Meeting, Pittsburgh, PA, November 2006
- “Modeling the HIV and Tuberculosis Co-epidemics in Developing Countries”
- INFORMS Annual Meeting, San Francisco, CA, November 2005
- “Treating Injection Drug Users with Antiretroviral Therapy: Effect on the HIV Epidemic in Russia”
- Society for Medical Decision Making Annual Meeting, San Francisco, CA, October 2005

TEACHING EXPERIENCE

Healthcare Operations (full-time and EMBA), Yale School of Management, 2008-present

Leadership Development Program, Yale School of Management, 2010-present

Decision Analysis, Yale School of Management, 2008-2010

Analysis of Costs, Risks, and Benefits of Healthcare (TA), Stanford Graduate School of Business, 2005-2007

Principles of Decision Analysis (TA), Stanford University, 2004

Engineering Stochastic Processes (TA), Cornell University, 2003

Introduction to Operations Research (TA), Cornell University, 2002

INDUSTRY EXPERIENCE

Strategic Decisions Group, Palo Alto, CA

Summer Consultant, June-August 2004

University of Melbourne, Melbourne, Australia

Research Assistant, Strategic Planning in Naval Operations, February-July 2002

Maxim Integrated Products, Sunnyvale, CA

Production Planning Co-op, August-December 2001

PROFESSIONAL ACTIVITIES

Member:

Institute for Operations Research and Management Sciences (INFORMS)

Society for Medical Decision Making

Reviewer:

Operations Research

Management Science

Production and Operations Management

Manufacturing and Service Operations Management

Medical Decision Making

Health Care Management Science

Interfaces

Miscellaneous:

Stanford Organization Conduct Board, 2005-2006

Student Chair, Stanford Alcohol Advisory Board, 2005-2006

Stanford Graduate Student Programming Board, 2003-2005

Volunteer SAT Tutor, 2003-2004

Society of Women Engineers, 1999-2003