

ELISA F. LONG

Assistant Professor of Operations Management
Yale School of Management

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ACADEMIC POSITIONS

2008-present Assistant Professor of Operations Management, Yale School of Management

EDUCATION

2008 Ph.D. Management Science & Engineering, Stanford University
Dissertation: "Economic Analysis of Preventive and Therapeutic HIV Interventions"
2005 M.S. Management Science & Engineering (Economics and Finance), Stanford University
2003 B.S. Operations Research & Industrial Engineering (*Magna Cum Laude*), Cornell University

HONORS AND AWARDS

2005 Lee B. Lusted Award for Best Student Oral Presentation, Society for Medical Decision Making 27th Annual Meeting
2005 Seth Bonder Scholarship for Applied Operations Research in Health Services, Institute for Operations Research and Management Sciences (INFORMS)
2003 Cortland and Jean Van Rensselear Graduate Fellowship, Stanford University
2003 Merrill Presidential Scholar (top 1% of graduating class), Cornell University
2002 Ormond Scholar (Highest Honors), University of Melbourne, Australia
2001 Lockheed Martin Engineering Scholar Award, Cornell University

REFEREED PUBLICATIONS

1. **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.
2. Patil CG, **Long EF**, Lansberg MG. "Cost-effectiveness Analysis of Mechanical Thrombectomy in Acute Ischemic Stroke", *Journal of Neurosurgery*, 2009, 110(3):508-13.
3. **Long EF**, Vaidya NK, Brandeau ML. "Controlling Co-epidemics: Analysis of HIV and Tuberculosis Infection Dynamics", *Operations Research*, 2008, 56(6):1366-81.
4. 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.

5. **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. **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.
2. 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.
3. 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.

WORK IN PROGRESS

1. **Long EF**, Brandeau ML, Owens DK. “Population Health Outcomes and Costs of Expanded HIV Screening and Antiretroviral Treatment in the United States”, 2009 (working paper).
2. Stavert RR, **Long EF**. “The Cost-Effectiveness of Alternative HIV Intervention Portfolios in South Africa”, 2009 (working paper).

CONFERENCE PRESENTATIONS

“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

2009-present *Healthcare Operations* (Instructor), Yale School of Management

2008-present *Decision Analysis* (Instructor), Yale School of Management

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

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

2003 *Engineering Stochastic Processes* (TA), Cornell University

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

INDUSTRY EXPERIENCE

Jun-Aug 2004 *Summer Consultant*, Strategic Decisions Group, Palo Alto, California

Feb-Jul 2002 *Research Assistant, Strategic Planning in Naval Operations*, University of Melbourne, Australia

Aug-Dec 2001 *Production Planning Co-op*, Maxim Integrated Products, Sunnyvale, California

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
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)
Alpha Epsilon Phi Sorority (2000-2003)
Society of Women Engineers (1999-2003)