

# Elizabeth Hastings Roer

RAND

4570 Fifth Avenue, Ste. 600

Pittsburgh, PA 15213

(412) 683-2300, ext. 4169

[Elizabeth\\_Hastings\\_Roer@rand.org](mailto:Elizabeth_Hastings_Roer@rand.org)

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## **EDUCATION**

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**Ph.D., Economics, University of California, San Diego, 2017**

Thesis title: *Essays on Federal Procurement*

Primary Fields: Public Economics, Development Economics, Applied Econometrics

**B.A./M.A. Economics, Boston University, 2005**

## **PROFESSIONAL EXPERIENCE**

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**Associate Economist, RAND**

**2017-Present**

### *Summary Responsibilities*

- Initiate, lead, and manage client-funded projects developing solutions to complex public policy challenges
- Translate economic theory and econometric tools into practical applications
- Primary focus: Defense industrial base, supply chain and acquisitions challenges
- Supported Clients: Office of the Under Secretary of Defense for Acquisition & Sustainment (OUSD(A&S)); Defense Advanced Research Projects Agency (DARPA); Office of the Administrative Assistant to the Secretary of the Army (OAA); Assistant Secretary of the Army (Financial Management and Comptroller) (ASA(FM&C)); United States Army Materiel Command (AMC); Assistant Secretary of the Air Force for Acquisition, Technology & Logistics (SAF/AQ); United States Marine Corps Operational Analysis Directorate (CD&IOAD)

### *Selected Research Contributions*

- Leading research effort developing methods for modeling and estimating supply chain resilience.
- Co-developed a novel backstopping mechanism for improving the efficiency of medical supply distribution during pandemics.
- Led and contributed to the development of a novel supply chain risk model decomposing the process by which disruptions are triggered and propagated through supply chains; model facilitates flexible, adaptable supply chain risk management (SCRM).
- Formulated and applied a theory of materiel surge policy, improving analytic rigor by establishing key objective and loss functions, supporting systematic enumeration and evaluation of surge investment options.
- Applied economic theory to develop a systems-level view of the challenges of incorporating operating and support (O&S) costs in competitive source selections, facilitating generation and evaluation of policy options.

*As of August 17, 2020*

- Led the design and implementation of a defense program evaluation including a market analysis, benefit cost analysis, and assessment of alternative business models.
- Applied empirical tools on numerous projects to assess policy contexts and inform recommendations. Notable examples include the application of multinomial choice modelling to readiness investment decisions, the design of a within estimator to evaluate the effects of contracting strategies, and the application of an analytic hierarchy process algorithm to inform allocation decisions for a new and evolving combat system

**United States Air Force**

**2005—2010**

Instructor of Economics, United States Air Force Academy, Colorado (*Capt, 2008—2010*)

Deployed Contracting Officer, Combined Joint Task Force—Horn of Africa (*1Lt, 2007—2008*)

Contract Specialist, Kirtland Air Force Base, New Mexico (*1Lt & 2Lt, 2005—2008*)

**SELECTED PUBLICATIONS AND WORKING PAPERS**

Elizabeth Hastings Roer and Isla Globus-Harris. “A Mechanism to Reduce Medical Supply Shortfalls During Pandemics.” RAND Perspective PE-A187-1. April 2020

“The Employment Effects of Sequester-Induced Federal Procurement Cuts” (Job Market Paper)

“Procuring Pork: Contract Characteristics and Channels of Influence” with Grant Johnson

“Do Voters Punish Politicians for Lost Federal Procurement Spending?” with Wayne Sandholtz

**TEACHING EXPERIENCE**

**University of California, San Diego Department of Economics**

Fall 2011—Spring 2015     *Teaching Assistant,*  
Econometrics B, Microeconomics A, International Trade,  
Public Policy, Energy Economics, Human Resources

**United States Air Force Academy Department of Economics and Geosciences**

Spring 2010                     *Course Director,* International Economics  
Fall 2009                        *Course Director,* Macroeconomics  
Fall 2008—Spring 2010     *Instructor,* Principles of Economics