### **BIOGRAPHICAL SKETCH**

Provide the following information for the Senior/key personnel and other significant contributors. Follow this format for each person. **DO NOT EXCEED FOUR PAGES.** 

NAME Casteel, Carri		POSITION TITLE		
eRA COMMONS USER NAME (credential, e.g., agency login) ccasteel	Associate F	Associate Professor		
EDUCATION/TRAINING (Begin with baccalaureate or other init residency training if applicable.)	tial professional education,	such as nursing, ii	nclude postdoctoral training and	
INSTITUTION AND LOCATION	DEGREE (if applicable)	MM/YY	FIELD OF STUDY	
University of California, Irvine University of California, Los Angeles University of California, Los Angeles	BS MPH PhD	06/92 06/96 12/01	Mathematics Epidemiology Epidemiology	

#### A. Personal Statement

The overall objective of the proposed translational research study is to demonstrate how evidence-based practices for older adult falls prevention adapted in clinical settings can be effectively delivered by healthcare providers to improve uptake and reduce the rate of falls and fall-related injuries among older adult participants. My experience in conducting translational research studies, including studies with older adult populations, positions me well to successfully contribute to the proposed work. I led a dissemination study to identify effective strategies of increasing senior center adoption of an older adult falls awareness program. This study showed that senior centers offer many programs that can be adapted to falls prevention and that senior center directors are willing to deliver falls prevention education with high fidelity to the program's original design. The dissemination study also showed low program uptake by older adults, which is very consistent with other evaluation studies of falls prevention programs. To address this issue, I am co-leading a translational research study to identify factors that would increase older adult use of evidence-based multifaceted falls prevention strategies. I was also a co-investigator on an intervention evaluation study to examine the effectiveness of a medication review and modification program, delivered through community pharmacies, on the rate of falls and fall-related injuries among community-dwelling older adults in North Carolina. In addition, I have a strong track record of leading translational and intervention research studies in workplace violence prevention.

#### **B.** Positions and Honors

Positions and Employment			
1995-1996	Student Intern, Injury and Violence Prevention Program, Los Angeles County Department of		
	Health Services, Los Angeles, CA		
1996	Teaching Assistant, Epidemiologic Methods Graduate Course, Department of Epidemiology,		
	University of California, Los Angeles, CA		
1996-2001	Assistant Researcher (2001-2003), Staff Research Associate (1996-2001), Southern		
	California Injury Prevention Research Center, Department of Epidemiology, University of		
	California, Los Angeles, CA		
1996-2002	Mathematics Instructor, Mount St. Mary's College, Los Angeles, CA		
2003-2013	Associate Director for Research (2012-2013), Core Faculty (2003-2013), University of North		
	Carolina Injury Prevention Research Center, Chapel Hill, NC		
2004-2013	Research Associate Professor (2010-2013), Research Assistant Professor (2005-2010),		
	Adjunct Assistant Professor (2004-2005), Department of Epidemiology, University of North		
	Carolina at Chapel Hill, Chapel Hill, NC		
2013-present	Associate Director for Education and Training, University of Iowa Injury Prevention Research		
	Center, College of Public Health, Iowa City, IA		
2013-present	Associate Professor, Department of Occupational and Environmental Health, University of		
	Iowa, Iowa City, IA		

<u>Honors</u>	
1996	Teaching Assistant of the Year, Department of Epidemiology, University of California, Los Angeles, CA
1996	Raymond Goodman Scholarship, School of Public Health, University of California, Los Angeles, CA
1997	Student Sponsorship, National Institute for Occupational Safety and Health Conference
1999	Student Research Award, Center for Occupational and Environmental Health, School of Public Health, University of California, Los Angeles, CA
2001	Delta Omega, National Public Health Honor Society
2001	Dissertation Workshop Awardee, Congress of Epidemiology 2001 Conference, Toronto, Ontario, Canada
2008	Featured, 2007-2008 Annual Report, Office of Research, University of North Carolina Gillings School of Global Public Health, New Investigator making a public health impact through research
2010	Recipient, 2009 Research Manuscript Award, Society for the Advancement of Violence and Injury Research

## C. Selected Peer-reviewed Publications

- 1. Casteel C, Peek-Asa C, Howard J, Kraus JF. Effectiveness of crime prevention through environmental design in reducing criminal activity in liquor stores: a pilot study. Journal of Occupational and Environmental Medicine 2004;46(5):450-458.
- 2. Casteel C, Peek-Asa C, Lacsamana C, Vazquez L, Kraus JF. Evaluation of a falls prevention program for independent elderly. American Journal of Health Behavior 2004;28 Suppl 1:S51-S60.
- 3. Runyan CW, Marshall SW, Coyne-Beasley T, Casteel C. Commentary: recommendations for home safety research and intervention. American Journal of Preventive Medicine 2005;28(1):116-118.
- 4. Runyan CW, Casteel C, Perkis D, Black C, Marshall SW, Johnson RM, Coyne-Beasley T, Waller A, Viswanathan S. Unintentional injuries in the home in the United States- Part I: Mortality. American Journal of Preventive Medicine 2005;28(1):73-79.
- 5. Casteel C, Peek-Asa C, Greenland S, Chu LD, Kraus JF. Effectiveness of a workplace violence intervention in small retail and service establishments. Journal of Occupational and Environmental Medicine 2008;50(12):1365-1370.
- 6. Ferreri S, Roth M, Casteel C, Demby KB, Blalock SJ. Methodology of an ongoing randomized controlled trial to prevent falls through enhanced pharmaceutical care. American Journal of Geriatric Pharmacotherapy 2008;6(2):61-81.
- 7. Vladutiu CJ, Casteel C, Runyan CW. Disability and risk of non-fatal residential injuries among adults. Injury Prevention 2008:14(5):302-305.
- 8. Casteel C, Peek-Asa C, Nocera M, Smith JB, Blando J, Goldmacher S, O'Hagan E, Valiante D, Harrison R. Hospital employee assault rates before and after enactment of the California Hospital Safety and Security Act. Annals of Epidemiology 2009;19(2):125-133.
- 9. Blalock SJ, Casteel C, Roth MT, Ferreri S, Demby KB, Shankar V. Preventing falls through enhanced pharmaceutical care: a randomized, controlled trial. American Journal of Geriatric Pharmacotherapy 2010;8(5):428-440.
- 10. Casteel C, Blalock SJ, Ferreri S, Roth MT, Demby KB. Implementation of a community pharmacy-based falls prevention program. American Journal of Geriatric Pharmacotherapy 2011;9(5):310-319.
- 11. Peek-Asa C, Casteel C. Documenting the need for translational research: an example from workplace violence prevention. Injury Prevention 2010;16(1):50-52.
- 12. Zachary C, Casteel C, Nocera M, Runyan CW. Barriers to senior center implementation of falls prevention programs. Injury Prevention 2012;18(4):272-276. Editor's choice.
- 13. Vladutiu CJ, Casteel C, Marshall SW, McGee KS, Runyan CW, Coyne-Beasley T. Disability and home safety practices in U.S. households. Disability and Health 2012;5(1):49-54.
- 14. Casteel C, Nocera M, Runyan CW. Health promotion and physical activity programs in senior centers, Activities, Adaptation & Aging 2013;37(3):213-223.
- 15. Cabell A, Casteel C, Chronister T, Nocera M, Vladutiu CJ, Peek-Asa C. Factors influencing robbery prevention program adoption. Health Education Research 2013 Sep 20 [Epub ahead of print].

## **Research Support**

# **Ongoing Research Support**

R01 OH010102 Casteel (PI)

09/01/11-08/31/14

Effectiveness of CCTV Systems in Reducing Retail Robbery Rates and Employee Injuries

The goal of this project is to understand the role of CCTV systems in the prevention of retail robbery and robbery-related employee injuries.

R01 OH009527 Casteel (PI)

09/01/08-08/31/13

09/01/13-08/31/14 (no-cost ext.)

Translation of a Workplace Violence Prevention Program into Small Businesses

The goal of this project is to identify optimal, sustainable methods in which law enforcement can recruit businesses to participate in an evidence-based robbery and violence prevention program and achieve high levels of compliance to program recommendations.

R03 OH010058

Casteel (PI)

09/01/11-08/31/13

09/01/13-08/31/14 (no-cost ext.)

Improving Dissemination of a Retail Workplace Violence Prevention Program

The goals of this project is to identify barriers to implementation of an evidence-based robbery and violence prevention program among small retail businesses, and to develop approaches to overcome barriers and increase uptake of effective strategies.

212-2012-M-51293

Ridenour, Hartley (co-Pls)

10/01/11-09/30/15

Workplace Violence Prevention Programs in New Jersey Healthcare Facilities

The goal of this project is to evaluate the impact of the New Jersey Violence Prevention in Healthcare Facilities Act in reducing workplace violence-related injuries to facility employees.

Role: Subcontract PI

R49 CD001167

Peek-Asa (PI)

08/01/12-07/31/17

The University of Iowa Injury Prevention Research Center

The goal of the UI IPRC remains to control and prevent injuries, especially in rural communities, focusing on high-risk populations such as children, the elderly, farmers, and those with disabilities, through interdisciplinary research, outreach and training, targeting a wide variety of unintentional injuries.

Role: Associate Director for Education and Training

49 PA-CE07-001

Marshall (PI)

08/01/09-08/31/14

Injury Prevention Research Center

The major goals of this center are to stimulate and participate in interdisciplinary research and to facilitate the translation of research into injury control policies and programs for prevention, acute care rehabilitation at the state, regional and national levels.

Casteel and Blalock (Co-Lead Investigators)

08/01/11-08/31/14

Translational Research to Identify Factors Related to Older Adult Use of Evidence-Based Falls Prevention Programs

The objectives of this project are to decrease the incidence of falls among older adults by: (1) better understanding factors that may limit the potential impact of existing evidence-based falls prevention programs, and (2) using this information to make strategic recommendations concerning the design and marketing of evidence-based programs to achieve greater use and impact.

# **Completed Research Support**

R03 OH009736

Rauscher (PI)

09/01/11-08/31/13

Factors in the Adoption of the Youth @ Work: Talking Safety Curriculum by High School Teachers The goal of this project was to identify the barriers and facilitators faced by high school teachers in adopting and sustaining the Talking Safety curriculum.

Role: Subcontract PI

R21 PAR-06-552 Peek-Asa (PI) 09/01/09-08/31/12

Worker-on-Worker Violence: Development of Methods to Evaluate Policies and Procedures

The objective is to determine if tabletop scenario exercises adapted from disaster preparedness research can serve as an effective tool to evaluate and improve business's policies and procedures for worker-on-worker violence.

Role: Subcontract PI

200-2007-22288 Hartley (PI) 08/14/07-12/31/10

Community-Based Workplace Violence Intervention for Businesses at High Risk for Robbery

The goal of this project is to identify strategies to increase small business participation in a workplace violence prevention program and compliance to program recommendations.

Role: Subcontract PI

R01 OH008688 Casteel (PI) 09/01/06-08/31/10

Violence Against Home Health and Hospice Workers

The objectives of this project are to understand the interaction of organizational, worker and job characteristics and the external environment that contribute to and protect home health and hospice workers from violence, and identify the most effective strategies to intervene.