

## Curriculum Vitae

Revised 1/21/19

### PATRICIA R. DeLUCIA

Department of Psychological Sciences MS-25  
Rice University, 6100 Main St.  
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## EDUCATION

National Research Council Postdoctoral Fellowship, Wright-Patterson Air Force Base, 1989-1991  
Ph.D. Columbia University, 1989 (Experimental Psychology)  
M.A. Columbia University, 1986 (Experimental Psychology)  
M.A. Columbia University, 1984 (Movement Sciences)  
B.A. Adelphi University, 1983 (Psychology; *summa cum laude*)

## EMPLOYMENT

### Faculty Positions

Professor, Psychological Sciences, Rice University, 2018-present  
Adjunct Professor, Psychological Sciences, Texas Tech University, 2018-present  
Professor of Psychology, Texas Tech University, 2004-2018  
Adjunct Professor, School of Nursing, Texas Tech University Health Sciences Center, 2007-2015  
Associate Professor of Psychology, Texas Tech University, 1997-2004  
Assistant Professor of Psychology, Texas Tech University, 1991-1997

### Administrative Positions and Experience (all at Texas Tech University)

Associate Vice President for Research-Faculty Affairs, Nov 2014-June 2018  
Faculty Fellow for Faculty Development, Office of the Vice President for Research, Apr 2014-Nov 2014  
Acting Director of Experimental Psychology Programs, Fall, 2013  
Associate Chairperson, Department of Psychology, 1998-2003  
(About 27 faculty, 5 staff, 690 majors, 90 doctoral students, 45 teaching assistants)  
Coordinator of the Human Factors Psychology Program, 1991-2017  
(Accredited program that offers combined B.A./M.A., terminal M.A., and Ph.D. degrees)

### Teaching Experience (fall, 1991 through fall, 2012, all at Texas Tech University)

**Undergraduate** (51 sections): *Introduction to Research Methods; Perception: Theory and Applications* (3 writing-intensive sections; 1 honors/writing-intensive section)

Undergraduate mean rating of instructor effectiveness, 2007-2012 (5 is highest): 4.39

**Graduate** (25 sections): *Human Factors Psychology; Seminar in Perception: Theory and Applications*

Graduate mean rating of instructor effectiveness 2007-2012 (5 is highest): 4.71

**Other Teaching Interests:** *Human Factors Methodology; Special Topics in Human Factors*

**Thesis Committees:** Currently supervising 3 doctoral students. Chairperson of 12 completed M.A. and 4 completed Ph.D. dissertations; member of more than 36 M.A., Ph.D., and qualifying exam committees.

### **Curriculum Development**

Authored the self-study which resulted in full accreditation of the Texas Tech University Human Factors Psychology Program, from the Human Factors and Ergonomics Society  
Conceived and spear-headed an accelerated (5-year) B.A./M.A. Degree in Human Factors Psychology

### **Practicum Development**

Developed formal practica at local institutions, for students in human factors: (a) Southwest Cancer Treatment and Research Center, University Medical Center, (b) Usability Laboratory, English Department, Texas Tech University, (c) Teaching, Learning and Technology Center, Texas Tech University (d) Information Technology Division, Texas Tech University

### **HONORS**

Texas Tech University President's Academic Achievement Award, 2017 (for excellence in achievement across teaching, research, and service missions of the university)  
Texas Tech University Faculty Distinguished Leadership Award, 2016 (for outstanding service to the department, college, or university)  
Human Factors and Ergonomic Society's Paul M. Fitts Education Award for outstanding contributions to the education and training of human factors specialists, 2015  
American Psychological Association Division 21's 2014 Franklin V. Taylor Award for Outstanding Contributions in the Field of Applied Experimental and Engineering Psychology  
Texas Tech University Bernie E. Rushing, Jr. Faculty Distinguished Research Award (Social Science, Humanities, and Creative Arts Disciplines), 2012  
Standing Review Panel for the NASA Johnson Space Center Human Research Program, Space Human Factors and Habitability Element, 2009-2012  
Grant Reviewer for Special Emphasis Panel on *Patient Safety through Simulation Research*, Agency for Health Research Quality, 2006  
Member of Committee for the Safety Belt Technology Study, Transportation Research Board, National Research Council, National Academy of Sciences, 2002-2003  
Honored at Texas Tech University Mortar Board Apple Polishing Ceremony, 1993

### **NATIONAL & INTERNATIONAL SERVICE**

#### **Offices, Committees, Panels**

Proposal Review Panel FY2019, SBE Research Experience for Undergraduates (REU) Sites, National Science Foundation, 2018  
Chairperson, Accreditation Committee, Human Factors and Ergonomics Society, 2010-2013  
President, Immediate Past President, President-Elect, Division 21 of the American Psychological Association, 2009-2012  
Member, Fellows Committee, Division 21 of the American Psychological Association (APA), 2012  
Member, Policy and Planning Committee, Human Factors and Ergonomics Society, 2012  
Member Transportation Advisory Panel for the Texas Department of Transportation, 2009-2012  
Chairperson, Awards Committee, APA Division 21, 2012  
Chairperson, Education & Training Committee, Human Factors and Ergonomics Society, 2004-2009  
Program Chairperson, APA Division 21, 2009 Annual Meeting  
Co-Chairperson, Benchmarking Database Task Force, Human Factors & Ergonomics Society, 2004  
Chairperson of the Perception & Performance Technical Group, Human Factors & Ergonomics Society, 2004-2006  
Program Chairperson, Perception & Performance Technical Group, Human Factors & Ergonomics Society, 2002 Annual Meeting

Special Emphasis Panel, Improving Patient Safety through Simulation Research, Agency for Healthcare Research and Quality, National Institutes of Health, 2011.

Member, Professional Standards Committee, Program Accreditation Task Force, Human Factors and Ergonomics Society, 2008, 2010

Member, Education & Training Committee, Human Factors and Ergonomics Society, 2001-2004

Member, Jerome Ely Award Committee, Human Factors & Ergonomics Society, 2004

### **Editorial Appointments**

Editor-in-Chief, *Human Factors*, 2014-present

Associate Editor, *Human Factors*, 2009-2013

Editorial Board, *Journal of Experimental Psychology: Applied*, 2007-2013

Editorial Board, *Human Factors*, 1999-2009

Editorial Consultant, *Journal of Scientific Psychology*, 2007-present

Editorial Board for *Reviews of Human Factors and Ergonomics*, Volume 8 (Health Care), 2012

### **Journal Reviews**

*Acta Psychologica*

*American Journal of Psychology*

*Applied Ergonomics*

*Applied Cognitive Psychology*

*Attention, Perception & Psychophysics*

*Behavioral and Brain Functions*

*Brain and Cognition*

*Computers and Industrial Engineering: An International Journal*

*Ecological Psychology*

*Experimental Aging Research*

*Experimental Brain Research*

*Ergonomics*

*Human Factors*

*International Journal of Psychology*

*Journal of Contemporary Psychotherapy*

*Journal of Educational Psychology*

*Journal of Experimental Psychology: Applied*

*Journal of Experimental Psychology: Human Perception and Performance*

*Journal of Neurophysiology*

*Optometry and Vision Science*

*Perception*

*Perceptual and Motor Skills*

*Psychological Review*

*Psychological Science*

*Psychology & Aging*

*Psychonomic Bulletin and Review*

*Review of Human Factors and Ergonomics, Volume 6*

*Transportation Research Part F*

*Trends in Cognitive Sciences*

*Visual Cognition*

*Vision Research*

### **Ad-hoc Grant Reviews**

Australian Research Council

National Science Foundation  
Road Safety Institute, University of Minnesota

**External Reviews for Other Institutions (tenure, promotion, distinctions)**

University of Idaho  
University of Queensland, Australia  
University of Kansas  
Deakin University, Australia  
Old Dominion University  
University of Central Florida  
University of Cincinnati  
University of Iowa  
University of Kentucky  
Michigan Tech University  
North Carolina State University  
Wichita State University  
Georgia Institute of Technology  
New Mexico State University  
Arizona State University  
Clemson University  
Rice University  
Lafayette College  
United States Military Academy (West Point)

**PROFESSIONAL MEMBERSHIPS**

American Psychological Association Division 21, Applied Experimental and Engineering Psychology (**Fellow**)  
American Psychological Association Division 3, Experimental Psychology (**Fellow**)  
Association for Psychological Science (**Fellow**)  
Human Factors and Ergonomics Society (**Fellow**)  
Psychonomic Society (**Fellow**)

**UNIVERSITY SERVICE**

**Sample Administrative Committees**

Member of Search Committee, Director of TTU Mental Health Institute (System level) 2017-2018  
Committee on Academic Engagement and Outreach, 2016-2017  
President's 2015-2025 Strategic Planning Committee, 2015  
Provost's 2015 Strategic Planning Committee  
Chairperson of 2 tenure and promotion committees  
Chairperson of 5 faculty search committees  
Chairperson of 4 student appeals committees  
Chairperson of Library Committee, 1995-1997  
Member of Convocation Committee, 2011- 2014  
Member of STEM Council, 2012-2013  
Chair of Research and Faculty Development Committee, 2012  
Member of Research and Faculty Development Committee, 2011-present  
Member of Graduate Council (elected), Graduate Faculty Subcommittee, 2006-2009  
Member of Subcommittee on Responsible Conduct of Research and Creativity, 2007  
Chair and member of Resource and Space Committee, 2005-2007, 2009-2011

Member of Executive Committee (advisory to department chairperson), 1998-2003, 2013  
Member of Psychology Strategic Planning Committee, 2000-2002  
Member of Institutional Review Board, 1997-2000  
Member of Tenure & Promotion Committee for 5 assistant professors and 1 associate professor  
Member of Undergraduate Programs Committee, 2007  
Undergraduate student advising, 1991-1998

## **PUBLICATIONS & PRESENTATIONS (180)**

### **Books (2)**

DeLucia, P. R. (Ed.) (2011). *Reviews of Human Factors and Ergonomics*, Volume 7. Santa Monica, CA: Human Factors and Ergonomics Society.

Transportation Research Board (2004). *Buckling up: Technologies to increase seat belt use*. Washington, DC: National Academy Press. SR-278. [**Note:** This report describes the findings and recommendations of the Committee for the Safety Belt Technology Study on which I served].

### **Encyclopedia Entries (2)**

Durso, F. T., DeLucia, P. R., & Jones, K. S. (2010). Engineering psychology. In I. B. Weiner & W. E. Craighead (Eds.) *Corsini encyclopedia of psychology* (4<sup>th</sup> ed., pp. 573-576). Hoboken, NJ: John Wiley & Sons.

Durso, F. T., Jones, K. S., & DeLucia, P. R. (2010). Human factors research. In I. B. Weiner & W. E. Craighead (Eds.) *Corsini encyclopedia of psychology* (4<sup>th</sup> ed., pp. 781-784). Hoboken, NJ: John Wiley & Sons.

### **Chapters (7)**

DeLucia, P. R. (2017). *Three-dimensional Mueller-Lyer Illusion: Theoretical and Practical Implications*. In A. Shapiro and D. Todorovic (eds.). *The Oxford Compendium of Visual Illusions* (pp. 185-189). Oxford University Press.

DeLucia, P. R., & Levulis, S. (2015). *Basics of sensation and perception with an eye toward application*. In D. Boehm-Davis, F. T. Durso, and J. D. Lee (Eds.). *APA Handbook of Human-Systems Integration* (pp. 229-245), Washington DC: American Psychological Association.

DeLucia, P. R. (2015). *Perception of Collision*. In R. R. Hoffman, P. A. Hancock, M. W. Scerbo, R. Parasuraman, & J. L. Szalma, (Eds.). *The Cambridge Handbook of Applied Perception Research* (pp. 568-591). New York: Cambridge University Press.

DeLucia, P. R., Ott, T. E., & Palmieri, P. A. (2009) Performance in nursing. In F. T. Durso (Ed.), *Reviews of human factors and ergonomics*, Vol. 5. Santa Monica, CA: Human Factors and Ergonomics Society.

Palmieri, P. A., DeLucia, P. R., Peterson, L. T., Ott, T. E., & Green, A. (2008). The anatomy and physiology of error in adverse healthcare events. In G. T. Savage & E. Ford, *Advances in Health Care Management, Volume 7, Patient Safety and Health Care Management* (pp. 33-68). Emerald Group Publishing Limited.

DeLucia, P. R. (2007). How Big Is an Optical Invariant? Limits of Tau in Time-to-Contact Judgments. In M. A. Peterson, B. Gillam, & H. A. Sedgwick (Eds.), *In the Mind's Eye: Julian Hochberg on the Perception of Pictures, Film, and the World* (pp. 473-482). NY: Oxford University Press.

DeLucia, P. R. (2004). Multiple sources of information influence time-to-contact judgments: Do heuristics accommodate limits in sensory and cognitive processes? In H. Hecht & G. J. P. Savelsburgh (Eds.), *Advances in psychology: Vol. 135. Time-to-Contact* (pp. 243-286). Amsterdam: Elsevier-North-Holland.

### **Manuscripts Under Review or In Preparation**

DeLucia, P. R., Kim, J-H., Nguyen, N., Wang, E., & Yang, J. (under review). *Learning to become researchers: Lessons learned from a Research Experience for Undergraduates (REU) Program focused on research in psychological sciences with real-world implications*

Lodinger, N. R., & DeLucia, P. R. (under review). *Does automated driving affect time-to-collision judgments?*

Braly, A. & DeLucia, P. R. (under review). *Can stroboscopic training improve judgments of time-to-collision?*

### **Refereed Journal Articles (50)**

Solis, P. & DeLucia, P. R. (in press). Exploring the impact of contextual knowledge on student performance and interest in open humanitarian mapping. *The Professional Geographer*.

Greenlee, E. T., DeLucia, P. R., & Newton, D. C. (in press). Driver vigilance in automated vehicles: Effects of demands on hazard detection performance. *Human Factors*.

Lodinger, N. R., & DeLucia, P. R. (in press). Angle of camera view influences resumption lag in a visual-motor task. *Human Factors*

Reynolds, T. L., DeLucia, P. R., Esquibel, K. A., Gage, T., Wheeler, N. J., Randell, J. A., Stevenson, J. G., & Zheng, K. (2019). Evaluating a handheld decision support device in pediatric intensive care settings. *JAMIA Open*, ooy055, 1-13. <https://doi.org/10.1093/jamiaopen/ooy055>

Levulis, S. J., DeLucia, P. R., & Kim, S-Y. (2018). Effects of touch, voice, and multimodal input on multiple-UAV monitoring performance during simulated manned-unmanned teaming in a military helicopter. *Human Factors*, 60, 1117-1129.

Baures, R., Maquestiaux, F., DeLucia, P. R., Defer, A., & Prigent, E. (2018). Availability of attention affects time-to-contact estimation. *Experimental Brain Research*, 236, 1971-1984.

Greenlee, E. T., DeLucia, P. R., & Newton, D. C. (2018). Driver vigilance in automated vehicles: Hazard detection failures are a matter of time. *Human Factors*, 50, 465-476.

Braly, A. M., Parent, M. C., & DeLucia, P. R. (2017). Do threats to masculinity result in more aggressive driving behavior? *Psychology of Men & Masculinity*. Advance online publication. <http://dx.doi.org/10.1037/men0000135>

DeLucia, P. R. & Jones, K. S. (2017). Gibson and Crooks (1938): Vision and validation. *American Journal of Psychology*, 130, 413-429 (invited for 130<sup>th</sup> anniversary volume)

Keshavarz, B., Campos, J. L., DeLucia, P. R., & Oberfeld, D. (2017). Estimating the relative weights of visual and auditory tau versus heuristic-based cues for time-to-contact judgments in realistic, familiar scenes by older and younger adults. *Attention, Perception, & Psychophysics*, 79, 929-944.

Baures, R., DeLucia, P. R., Olson, M., & Oberfeld, D. (2017). Asymmetric interference in concurrent time-to-contact estimation: Cousin or twin of the Psychological Refractory Period effect? *Attention, Perception, & Psychophysics*, 79, 698-711.

Levulis, S. J., DeLucia, P. R., & Oberfeld, D. (2016). Effects of Adjacent Vehicles on Judgments of a Lead Car during Car-Following. *Human Factors*, 58, 1096-1111.

DeLucia, P. R., Meza-Arroyo, M., Baures, R., Ranjit, M., Hsiang, S., & Gorman, J. C. (2016). Continuous response monitoring of relative time-to-contact judgments: Does effective information change during an approach event? *Ecological Psychology*, 28, 1-22.

DeLucia, P. R., Preddy, D., & Oberfeld, D. (2016). Audiovisual integration of time-to-contact information for approaching objects. *Multisensory Research*, 29, 365-395.

Levulis, S. J., DeLucia, P. R., & Jupe, J. (2015). Effects of oncoming vehicle size on overtaking judgments. *Accident Analysis and Prevention*, 82, 163-170.

Ranjit, M., Harshvardhan, G., Hsiang, S. M., & DeLucia, P. R. (2015). Stochastic resonance in time-to-contact judgments. *Fluctuation and Noise Letters*, 14. DOI: 10.1142/S0219477515500212

DeLucia, P. R., Brendel, E., Hecht, H., Stacy, R., & Larsen, J. T. (2014). Threatening scenes but not threatening faces shorten time-to-contact estimates. *Attention, Perception & Psychophysics*, 76, 1698-1708.

Brendel, E., Hecht, H., DeLucia, P. R., & Gamer, M. (2014). Emotional effects on time-to-contact judgments: Arousal, threat, and fear of spiders modulate the effect of pictorial content. *Experimental Brain Research*, 232, 2337-2347.

DeLucia, P. R., Harold, S. A., & Tang, Y-Y. (2013). Innovation in technology-aided psychotherapy through human factors/ergonomics: Toward a collaborative approach. *Journal of Contemporary Psychotherapy*, 43, 253-260.

Klein, M. I., DeLucia, P. R., & Olmstead, R. (2013). The impact of visual scanning in the laparoscopic environment after engaging in strain coping. *Human Factors*, 55, 509-519.

DeLucia, P.R. (2013). Effects of size on collision perception and implications for perceptual theory and transportation safety. *Current Directions in Psychological Science*, 22, 199-204.

Brendel, E., DeLucia, P. R., Hecht, H., Stacy, R.L., & Larsen, J. T. (2012). Threatening pictures induce shortened time-to-contact estimates. *Attention, Perception & Psychophysics*, 74, 979-987.

DeLucia, P. R., & Griswold, J. A. (2011) Effects of camera arrangement on perceptual-motor performance in minimally-invasive surgery. *Journal of Experimental Psychology: Applied*, 17, 210-232.

DeLucia, P. R., & Ott, T. E. (2011) Action and attentional load can influence aperture effects on motion perception. *Experimental Brain Research*, 209, 215-224.

DeLucia, P. R., & Tharanathan, A. (2009). Responses to deceleration during car following: Roles of optic flow, warnings, expectations and interruptions. *Journal of Experimental Psychology: Applied*, 15, 334-350.

Jones, K. S., DeLucia, P. R., Hall, A. R., & Johnson, B. R. (2009). Can metric feedback training hinder actions involving distance? *Human Factors*, 51, 419-432.

DeLucia, P. R. (2008). Critical roles for distance, task, and motion in space perception: Initial conceptual framework and practical implications. *Human Factors*, 50, 811-820

Mather, R. D., & DeLucia, P. R. (2007). Testing for effects of racial attitudes and visual contrast on the speed of a driver's response to a pedestrian. *Transportation Research: Part F*, 10, 437-446

DeLucia, P. R., & Mather, R. D. (2006). Motion extrapolation of car-following scenes in younger and older drivers. *Human Factors*, 48, 666-674.

DeLucia, P. R., & Maldia, M. (2006). Visual memory for moving scenes. *Quarterly Journal of Experimental Psychology*, 59, 340-360.

DeLucia, P. R., Mather, R. D., Griswold, J. A., & Mitra, S. (2006). Toward the improvement of image-guided interventions for minimally-invasive surgery: Three factors that affect performance. *Human Factors*, 48, 23-38.

DeLucia, P. R. (2005). Does binocular disparity or familiar size override effects of relative size on judgments of time to contact? *Quarterly Journal of Experimental Psychology*, 58A, 865-886.

DeLucia, P. R. (2004). Time-to-contact judgments of an approaching object that is partially concealed by an occluder. *Journal of Experimental Psychology: Human Perception and Performance*, 30, 287-304.

DeLucia, P. R., Kaiser, M. K., Bush, J. M., Meyer, L. E., Sweet, B. T. (2003). Information integration in judgments about time to contact. *Quarterly Journal of Experimental Psychology: Human Experimental Psychology*, 56A, 1165-1189.

DeLucia, P. R., Bleckley, M. K., Meyer, L. E., & Bush, J. M. (2003). Judgments about collision in younger and older drivers. *Transportation Research, An International Journal. Part F: Traffic Psychology and Behaviour*, 6, 63-80.

DeLucia, P. R., Tresilian, J. R., & Meyer, L. E. (2000). Geometrical illusions can affect time-to-contact estimation and mimed prehension. *Journal of Experimental Psychology: Human Perception and Performance*, 26, 552-567.

DeLucia, P. R. (1999). Critique of "Distance estimation with night vision goggles: A little feedback goes a long way." *Human Factors*, 41, 507-510. [Invited]

DeLucia, P. R., & Meyer, L. E. (1999). Judgments about the time-to-contact between two objects during simulated self motion. *Journal of Experimental Psychology: Human Perception and Performance*, 25, 1813-1833.



- DeLucia, P. R. (1999). Size-arrival effects: The potential role of conflicts between monocular and binocular time-to-contact information, and of computer aliasing. *Perception & Psychophysics*, *61*, 1168-1177.
- DeLucia, P. R., & Liddell, G. W. (1998). Cognitive motion extrapolation and cognitive clocking in prediction-motion tasks. *Journal of Experimental Psychology: Human Perception and Performance*, *24*, 901-914.
- DeLucia, P. R., & Novak, J. B. (1997). Judgments of relative time to contact of more than two approaching objects: Toward a method. *Perception & Psychophysics*, *59*, 913-928.
- DeLucia, P. R. (1995). Effects of pictorial relative size and ground-intercept information on judgments about potential collisions in perspective displays. *Human Factors*, *37*, 528-538.
- DeLucia, P. R., & Task, H. L. (1995). Depth and collision judgment using night vision goggles. *International Journal of Aviation Psychology*, *5*, 371-386.
- Young, R. S. L., Kimura, E., & DeLucia, P. R. (1995). A pupillometric correlate of scotopic visual acuity. *Vision Research*, *35*, 2235-2241.
- DeLucia, P. R., & Warren, R. (1994). Pictorial and motion-based depth information during active control of self motion: Size-arrival effects on collision avoidance. *Journal of Experimental Psychology: Human Perception and Performance*, *20*, 783-798.
- DeLucia, P. R., Longmire, S. P., & Kennish, J. (1994). Diamond-winged variants of the Mueller-Lyer figure: A test of Virsu's (1971) centroid theory. *Perception & Psychophysics*, *55*, 287-295. [cited in textbook: Matlin, M. W. & Foley, H. J. (1997) *Sensation and Perception*. Needham Heights, MA: Allyn and Bacon.]
- DeLucia, P. R. (1993). A quantitative analysis of illusion magnitude predicted by several averaging theories of the Mueller-Lyer illusion. *Perception & Psychophysics*, *53*, 498-504.
- DeLucia, P. R. (1991). Pictorial and motion-based information for depth perception. *Journal of Experimental Psychology: Human Perception and Performance*, *17*, 738-748.
- DeLucia, P. R., & Hochberg, J. (1991). Geometrical illusions in solid objects under ordinary viewing conditions. *Perception & Psychophysics*, *50*, 547-554.
- DeLucia, P. R., & Cochran, E. L. (1985). Perceptual information for batting can be extracted throughout a ball's trajectory. *Perceptual and Motor Skills*, *61*, 143-150. (undergraduate research)

### **Refereed Proceedings Publications Based on Conference Presentations (30)**

- Klein, M. I., DeLucia, P. R., & Neilson, B. (2018). The impact of distance between displays on visual scanning in the laparoscopic training environment: The role of effort. *Proceedings of the Human Factors and Ergonomics Society 2018 Annual Meeting*, *62*, 1192-1196.
- DeLucia P. R., Greenlee, E. T., & Warm, J. S. (2018). Does the vigilance decrement occur for elementary features? *Proceedings of the Human Factors and Ergonomics Society 2018 Annual Meeting*, *62*, 1267-1271.
- Levulis, S. J., DeLucia, P. R., Nelson, V., & Yang, J. (2018). Does perceived harm underlie effects of vehicle size on overtaking judgments during driving? *Proceedings of the Human Factors and Ergonomics Society*

2018 Annual Meeting, 62, 1384-1388.

Garcia, M., Cruz, J., Garza, C., DeLucia, P. R., & Yang, J. (2018). The effect of object surfaces and shapes on hand grip function for heavy objects. In D. N. Cassenti (ed.), *Advances in Human Factors in Simulation and Modeling: Proceedings of the AHFE 2018 International Conferences on Human Factors and Simulation and Digital Human Modeling and Applied Optimization*, 446-452.

Klein, M. I., Halcomb, C., DeLucia, P. R., Liddell, G., Chaparro, B., & Endsley, M. (2017). 50 years of Human Factors Psychology at Texas Tech University. *Proceedings of the Human Factors and Ergonomics Society 61<sup>st</sup> Annual Meeting*, 61, 430-434.

Holmes, A., Opella, J., Cloutier, A., Yang, J., & DeLucia, P.D. (2016). Lifting motions during patient repositioning in novice and experienced nurses: A pilot study. *Proceedings of the ASME 2016 International Design Engineering Technical Conferences & Computers and Information in Engineering Conference*. Volume 1A, August 21-24, 2016, Charlotte, North Carolina, USA. Paper No. DETC2016-59675.

Wheeler, N. J., DeLucia, P. R., Esquibel, K. A., Randell, J. A., Stevenson, J. G., Gage, T., Zheng, K. (2014). Focused ethnographic observations: Cues to medication administration. *Proceedings of the Human Factors and Ergonomics Society 58<sup>th</sup> Annual Meeting*, 58, 1257-1261.

DeLucia, P. R., Preddy, D., Derby, P., Tharanathan, A., & Putrevu, S. (2014). Eye movement behavior during confusion: Toward a method. *Proceedings of the Human Factors and Ergonomics Society 58<sup>th</sup> Annual Meeting*, 58, 1300-1304.

Brill, J. C., DeLucia, P. R., Flach, J. M., Kaber, D. B., & Youmans, R. J. (2013). *Invisible Factors: Strategies for Raising Awareness of Human Factors Among Undergraduate Students*. Proceedings of the Human Factors and Ergonomics Society 57<sup>th</sup> Annual Meeting-2013, 57, 447-451. (invited panel)

Klein, M. I., DeLucia, P. R., Doig, A., Drews, F., Durso, F. T., & Miller, A. (2013). Panel Discussion: *Giving Human Factors/Ergonomics Away: How can we bring the benefits of HF/E to nursing?* Proceedings of the Human Factors and Ergonomics Society 57<sup>th</sup> Annual Meeting-2013. (invited panel)

DeLucia, P. R. & Ott, T. E., & Palmieri, P. A. (2009). Interruptions and cognitive processes in nursing. *Human Factors and Ergonomics Society 53<sup>rd</sup> Annual Meeting*, San Antonio, Texas.

DeLucia, P. R. & Betts, E. T. (2008). Separated versus integrated displays in minimally-invasive surgery. *Proceedings of the Human Factors and Ergonomics Society 52<sup>nd</sup> Annual Meeting*, Santa Monica, CA: Human Factors and Ergonomics Society.

DeLucia, P. R. (2007). A multidimensional model of space perception: Theoretical and practical implications. *Proceedings of the Human Factors and Ergonomics Society 51st Annual Meeting*, Santa Monica, CA: Human Factors and Ergonomics Society.

Ott, T. E., & DeLucia, P. R. (2007). Attention moderates the aperture illusion: Theoretical and practical implications. *Proceedings of the Human Factors and Ergonomics Society 51st Annual Meeting*, Santa Monica, CA: Human Factors and Ergonomics Society.

Mork, K. S., & DeLucia, P. R. (2007). Visual information in judgments of head-on collisions. *Proceedings of*

*the Human Factors and Ergonomics Society 51st Annual Meeting*, Santa Monica, CA: Human Factors and Ergonomics Society.

Tharanathan, A., & DeLucia, P. R. (2007). Detecting the deceleration of a lead car during active control of self motion. *Proceedings of the Human Factors and Ergonomics Society 51st Annual Meeting*, Santa Monica, CA: Human Factors and Ergonomics Society.

Jones, K. S., DeLucia, P. R., Hall, A. R., & Johnson, B. R. (2007). Can Metric Feedback Training Hinder Actions Involving Distance? *Proceedings of the Human Factors and Ergonomics Society 51st Annual Meeting*, Santa Monica, CA: Human Factors and Ergonomics Society.

DeLucia, P. R., Mork, K. S. Ott, T. E., Betts, E., Niroumand, N. S. & Slaughter, M. L. (2007). *Measurement of the Relationship between Patient Wait Time and Patient Satisfaction at each Stage of an Appointment. Proceedings of the Human Factors and Ergonomics Society 51st Annual Meeting*, Santa Monica, CA: Human Factors and Ergonomics Society

Ott, T. E. & DeLucia, P. R. (2006). Does active control eliminate the aperture illusion? *Proceedings of the Human Factors and Ergonomics Society 50th Annual Meeting*. Santa Monica, CA: Human Factors and Ergonomics Society.

Ott, T. E. & DeLucia, P. R. (2006). The aperture illusion can occur with “3-D” displays and active control: Implications for minimally-invasive surgery. *Proceedings of the Human Factors and Ergonomics Society 50th Annual Meeting*., Santa Monica, CA: Human Factors and Ergonomics Society.

Mork, K. S., & DeLucia, P. R. (2006). Identifying the Driving Factors that Affect Judgments of Head-On Collisions. *Proceedings of the Human Factors and Ergonomics Society 50th Annual Meeting*, Santa Monica, CA: Human Factors and Ergonomics Society.

Tharanathan, A. DeLucia, P. R. (2006). Time-to-contact judgments of constant and non-constant velocities: Implications for rear-end collisions. *Proceedings of the Human Factors and Ergonomics Society 50th Annual Meeting*, Santa Monica, CA: Human Factors and Ergonomics Society.

Hall, A., Jones, K. S., & DeLucia, P. R. (2006). Does Distance Estimation Training Transfer to Actions? *Proceedings of the Human Factors and Ergonomics Society 50th Annual Meeting*, Santa Monica, CA: Human Factors and Ergonomics Society.

DeLucia, P. R., & Tharanathan, A. (2005). Effects of optical flow and discrete warnings on deceleration detection during car following. *Proceedings of the Human Factors and Ergonomics Society 49th Annual Meeting*, Santa Monica, CA: Human Factors and Ergonomics Society.

DeLucia, P. R., Hoskins, M. L., & Griswold, J. A. (2004). Laparoscopic Surgery: Are Multiple Viewing Perspectives Better than One? *Proceedings of the Human Factors and Ergonomics Society 48th Annual Meeting*, Santa Monica, CA: Human Factors and Ergonomics Society. (to be presented in Sept, 2004)

DeLucia, P. R., Mather, R. D., Griswold, J. A., & Mitra, S. (2003). Human-centered design of image-guided interventions for minimally-invasive surgeries: Toward a methodology. *Proceedings of the Human Factors and Ergonomics Society 47th Annual Meeting*, Santa Monica, CA: Human Factors and Ergonomics Society.

DeLucia, P. R., Meyer, L. E., & Bush, J. M. (2002). Judgments about collisions in simulations of scenes with textured surfaces and self motion: Do display enhancements affect performance? *Proceedings of the Human*

*Factors and Ergonomics Society 46<sup>th</sup> Annual Meeting*, Santa Monica, CA: Human Factors and Ergonomics Society.

DeLucia, P. R. (2001). Age differences in judgments about potential collision and implications for driving. *Proceedings of the Human Factors and Ergonomics Society 45<sup>th</sup> Annual Meeting*, Santa Monica, CA: Human Factors and Ergonomics Society.

DeLucia, P. R., & Bush, J. M. (1999). A critical analysis of umpire mechanics: Implications for training and research. *Proceedings of the Human Factors and Ergonomics Society 43<sup>rd</sup> Annual Meeting*, Santa Monica, CA: Human Factors and Ergonomics Society.

DeLucia, P. R. (1991). Small near objects can appear farther than large far objects during object motion and self motion: Judgments of object-self and object-object collisions. In P. J. Beek, R. J. Bootsma, & P. C. W. van Wieringen (Eds.), *Studies in perception and action: Posters presented at the VIth international conference on event perception and action* (pp. 94-100). Amsterdam: Rodopi.

### **Refereed Abstracts Published in Regularly-Issued Periodicals Based on Conference Presentations (19)**

Lodinger, N. & DeLucia, P. R. (2018). Does automated driving affect time-to-collision judgments? *Proceedings of the Human Factors and Ergonomics Society 2018 Annual Meeting*, 62, 1833.

Braly, A.M. & DeLucia, P. R. (2018). *Can stroboscopic training improve time-to-collision judgments of laterally moving objects?* *Proceedings of the Human Factors and Ergonomics Society 2018 Annual Meeting*, 62, 1975-1976.

DeLucia, P. R., Kim, J-H., Nguyen, N., Wang, E., & Yang, J. (2018). Outcomes from a research experience for undergraduates (REU) program focused on behavioral research with real-world implications. *Proceedings of the Human Factors and Ergonomics Society 2018 Annual Meeting*, 62, 1156.

Braly, A. M., & DeLucia, P. R. (2017). Can stroboscopic training improve time-to-collision judgments of approaching objects? *Proceedings of the Human Factors and Ergonomics Society 2017 Annual Meeting*, 61, 1497-1498.

Lodinger, N. & DeLucia, P. R. (2017). Angle of camera view influences resumption lag in a visual-motor task. *Proceedings of the Human Factors and Ergonomics Society 2017 Annual Meeting*, 61, 1291.

Greenlee, E. T., DeLucia, P. R., & Newton, D. C. (2017). Driver vigilance in automated vehicles: Hazard detection failures are a matter of time. *Proceedings of the Human Factors and Ergonomics Society 61<sup>st</sup> Annual Meeting*, 61, 1369.

Levulis, S., Kim, S-Y., & DeLucia, P. R. (2016). Effects of touch, voice, and multimodal input on multiple-UAV monitoring performance during manned-unmanned teaming in a military helicopter. *Proceedings of the Human Factors and Ergonomics Society 60<sup>th</sup> Annual Meeting*, 60, 132.

Levulis, S. J., DeLucia, P. R., & Jupe, J. (2014). Effects of oncoming vehicle size on overtaking judgments. *Proceedings of the Human Factors and Ergonomics Society 58<sup>th</sup> Annual Meeting*, 58, 2234.

Levulis, S., DeLucia, P. R., & Oberfeld, D. (2012). *Effects of task-irrelevant cars on judgments of deceleration*

and time-to-contact during car following. *Proceedings of the 56<sup>th</sup> meeting of the Human Factors and Ergonomics Society*, 56, 1634.

Mather, R. D. & DeLucia, P. R. (2006) Effects of Contrast on Responses to Subliminal Stimuli During Driving Simulations. Annual Meeting of the Psychonomic Society, Houston, November.

DeLucia, P. R. (2005). Effective information for TTC judgments varies during an approach event [Abstract]. *Journal of Vision*, 5(8), 330a, <http://journalofvision.org/5/8/330/>, DOI:10.1167/5.8.330.

DeLucia, P. R. (2002). Judgments of time to contact when an approaching object is partially concealed by a static or moving occluder. *Journal of Vision*, 2(7), 348a, <http://journalofvision.org/2/7/348/>, DOI 10.1167/2.7.348.

DeLucia, P. R., Kaiser, M. K., Garcia, A., & Sweet, B. T. (2001). Effects of relative size and height in field on absolute judgments of time to contact *Journal of Vision*, 1(3), 312a, <http://journalofvision.org/1/3/312/>, DOI10.1167/1.3.312.

DeLucia, P. R., Kaiser, M. K., Bush, J. M., Meyer, L. E., & Sweet, B. T. (2000). Information integration in judgments about time to contact. *Investigative Ophthalmology & Visual Science*, 41, S798.

DeLucia, P. R., & Meyer, L. E. (1997). Judgments about the time-to-contact between two objects during self motion. *Investigative Ophthalmology & Visual Science*, 38, s79.

DeLucia, P. R., & Blume, J. L. (1994). Judging first arrival with two or eight approaching objects: Processing optic expansion information takes time. *Investigative Ophthalmology & Visual Science*, 35, 1276.

Young, R. S. L., Kimura, E., & DeLucia, P. R. (1993). Dark-adapted changes in the properties of visual pathways that project to the pupillomotor center. *Investigative Ophthalmology & Visual Science*, 34, 749.

DeLucia, P. R. (1992). Even during active control of self-motion, collision avoidance for small objects can occur later than for large objects of equal distance and speed. *Investigative Ophthalmology & Visual Science*, 33, 1144.

DeLucia, P. R. (1989). Even while approaching in depth, small near objects may appear farther than large far objects, *Supplement to Investigative Ophthalmology & Visual Science*, 30, 250.

### **Non-Refereed Articles (18)**

Edworthy, J. R., & DeLucia, P. R. (2018). Whither replication? *Human Factors*, 60, 741-742.

DeLucia, P. R. (2016). *Human Factors* Progress Report. *Bulletin of the Human Factors and Ergonomics Society*, May 17.

DeLucia, P. R. (2016). Seeking your input: Should Human Factors/Ergonomics join replication efforts? *Bulletin of the Human Factors and Ergonomics Society*, April 28.

DeLucia, P. R. (2014). Looking back, looking forward: 55 years of Human Factors. *Human Factors*, 56, 813-815.

DeLucia, P. R. (2014). At the forefront of Human Factors. *Bulletin of the Human Factors and Ergonomics*

*Society*, 57, 1-2.

DeLucia, P. R. (2014). Accreditation Committee. 2014-2015 Directory & Year Book. Santa Monica, CA: HFES. P. 38

DeLucia, P. R., & Harold, S. A. (2011). Should Human Factors/Ergonomics Go to Therapy? *Bulletin of the Human Factors and Ergonomics Society*, 54 (11), 1-2.

Hancock, P. A., DeLucia, P. R., & Warm, J. (2011). *Introducing APA Divisions: Division 21*. Psychology International, April.

DeLucia, P. R. (2008). Education and training committee invites 2009 workshop proposals. *Human Factors and Ergonomics Society Bulletin*, December.

DeLucia, P. R. (2007). E&T Committee Invites Workshop Proposals. *Human Factors and Ergonomics Society Bulletin*, January.

DeLucia, P. R. (2005). E&T Training Workshop Proposals for 2006. *Human Factors and Ergonomics Society Bulletin*, December.

DeLucia, P. R. (2005). E&T Committee Usability Workshops. *Human Factors and Ergonomics Society Bulletin*, August.

DeLucia, P. R. (2005). Wanted: Educational Materials on HF/E. *Human Factors and Ergonomics Society Bulletin*, March.

DeLucia, P. R. (2004). You Asked for Training Workshops: A Call for Proposals. *Human Factors and Ergonomics Society Bulletin*, December.

Human Factors (2003). This is a section of a chapter, *Specializations: Psychology at TTU*, that appears in a customized introductory textbook used in *General Psychology* (PSY 1300).

TTU 5-year B.A./M.A. Program. (2002). *Human Factors and Ergonomics Society Bulletin*, September.

New Program: Texas Tech University Introduces 5-year Combined B.A./M.A. Program in Human Factors Psychology. (2002). *Education Technical Group Newsletter of the Human Factors and Ergonomics Society*, July.

DeLucia, P. R. (1992). Visual illusions can occur with simulations of moving 3D scenes: Judgments about collision. *Insight: The Visual Performance Technical Group Newsletter*, 14, 1-4. (Special Issue: Motion perception in visual displays)

**PRESENTATIONS (51)** (excluding presentations associated with proceedings and abstracts listed above)

**Conference Presentations (25)**

Oberfeld, D., Keshavarz, B., Campos, J.L., & DeLucia, P. R. (2017). *Estimating the relative weights of accurate and heuristic auditory and audiovisual cues for time-to-collision judgments in a simulated traffic scene*. DAGA 2017 (German Acoustics Conference). Kiel, Germany, March 6-9, 2017.

- Carswell, C. M., DeLucia, P. R., Pritchett, A. R., & Stuart-Buttle, C. (2014). Meet the HFES journal editors. *Annual Meeting of the Human Factors and Ergonomics Society. (Panel of the 3 editors of HFES journals).*
- Oberfeld, D., Klöckner-Nowotny, F., Reinhard, R., & DeLucia, P. R. (2014). *Auditory detection of gradual changes in intensity.* Paper presented at the Conference of Experimental Psychologists, April, Germany.
- Randell, J. A., Mather, R. D., & DeLucia, P. R. (2012). *The role of racial attitudes and perceptual factors in pedestrian-vehicle collisions.* Presented at the annual meeting of the Society of Social and Personality Psychology, San Diego, CA.
- Klein, M. I., DeLucia, P. R., & Olmstead, R. (2011). *Critical Signal Detection in the Laparoscopic Environment when Fatigued: Split-Screen vs. Separated Displays.* Annual meeting of the Texas Association of Surgical Skills Laboratories (TASSL), Lubbock, September 9, 2011
- DeLucia, P. R. (2011). *Engineering Psychology for Technology: Technology-Mediated Treatment.* American Psychological Association Annual Convention. Presidential Address, Division 21.
- Schroeder, D., & DeLucia, P. R. (2011). *Applied Experimental and Engineering Psychology: International Activities of Division 21.* American Psychological Association Annual Convention.
- Klein, M. I., DeLucia, P. R., & Olmstead, R. (2011). *Monitoring Critical Signals in the Laparoscopic Surgery Environment: Split Screen vs. Separated Displays.* Texas Regional Human Factors and Ergonomics Conference.
- Linn, C., Haq, S., Decker, S., & DeLucia, P. R. (2011). *Automated dispensing cabinets: usability study using virtual reality simulation.* Environmental Design Research Association Conference.
- Durso, F. T., DeLucia, P. R., & Blickensderfer, E. (2009). Teaching human factors and ergonomics. (1-day workshop) *Human Factors and Ergonomics Society 53<sup>rd</sup> Annual Meeting*, San Antonio, Texas.
- Mather, R. D., & DeLucia, P. R. (2007, October). Effects of contrast on responses to subliminal stimuli during driving simulations. Poster presented at the annual Oklahoma Research Day, Edmond, OK.
- Mork, K. S., & DeLucia, P. R. (2007). *Head-on collisions: Visual information and judgments.* Paper presented at the South Texas Symposium on Human Factors and Ergonomics, San Antonio, TX.
- Hall, A.R., Jones, K.S., DeLucia, P.R., & Johnson, B.R. (2007). *Can metric feedback training transfer to an active response?* Paper presented at the South Texas Symposium on Human Factors and Ergonomics, San Antonio, TX.
- DeLucia, P. R., & Tharanthan, A. (2006). Judgments of Car-following Scenes Following a Visual Interruption. Presented at a symposium, *Are people driving beyond their perceptual and cognitive limits?* Annual meeting of the American Psychological Association, Division 21.
- DeLucia, P. R. (2006). Invited panelist on education in applied experimental psychology at the Annual meeting of the American Psychological Association, Division 21.
- Jones, K.S., DeLucia, P.R., Hall, A.R., & Johnson, B.R. (2006, June). Can metric feedback impair action?

Paper presented at the North American meeting of the International Society for Ecological Psychology, Cincinnati, OH.

DeLucia, P. R. (2001). *Visual memory for moving scenes: Boundary extension or representational momentum?* Annual Meeting of the Psychonomic Society, Orlando.

DeLucia, P. R., Meyer, L. E., & Tresilian, J. R. (1998). *The Sander parallelogram illusion can affect prehension and time-to-contact estimation.* Annual Meeting of the Psychonomic Society, Dallas.

Willis, R. E., & DeLucia, P. R. (1996). *Effects of blur on visual performance: Toward a quantitative method.* Southwestern Psychological Association, Houston. (presented by P. R. DeLucia)

DeLucia, P. R., & Liddell, G. W. (1994). *Cognitive extrapolation and time-to-contact judgments of approaching, rotating, and laterally-moving objects.* Annual Meeting of the Psychonomic Society, St. Louis.

DeLucia, P. R. (1989). *Although approaching in depth, large far objects may appear closer than small near objects.* Annual Meeting of the Eastern Psychological Association, Boston.

DeLucia, P. R. (1989). *Even while approaching in depth, small near objects may appear farther than large far objects.* Annual Meeting of the Association for Vision in Research and Ophthalmology, Sarasota.

Hochberg, J., & DeLucia, P. (1986). *The perception of real surfaces' real motions varies with perceived orientation of reversible objects drawn on them: Real and virtual space interact.* Annual Meeting of the Eastern Psychological Association, New York.

DeLucia, P., & Hochberg, J. (1986). *Real-World geometrical illusions: Theoretical and practical implications.* Annual Meeting of the Eastern Psychological Association, New York.

DeLucia, P., & Hochberg, J. (1985). *Illusions in the real world and in the mind's eye.* Annual Meeting of the Eastern Psychological Association, Boston.

## **Invited Presentations (28)**

### **National and International (16)**

DeLucia, P. R. (2018). *What do HF faculty search committees look for?* (HFES webinar on education). November 7.

DeLucia, P. R. (2018). *Keynote Address: Does the field of Human Factors/Ergonomics matter?* Houston HFES 2018 Symposium. Houston, Texas.

DeLucia, P. R. (2016). *Factors that Influence Collision Perception and Implications for Transportation Safety.* University of Minnesota, Roadway Safety Institute Seminar Series. December 8.

DeLucia, P. R. (2016). *Giving Human Factors Away.* Invited presentation for the Chief Scientist Seminar Series, Air Force Research Laboratory, Wright Patterson Air Force Base, Dayton, Ohio.

DeLucia, P. R. (2016). *Collision perception: When theory meets application.* Invited presentation at the Southern Ohio Chapter of the Human Factors and Ergonomics Society, Dayton, Ohio.



DeLucia, P. R. (2015). *Factors that influence collision perception: Theory and application*. Invited presentation as recipient of the Franklin V. Taylor Award. American Psychological Association, Toronto.

Chaparro, B., DeLucia, P. R., & Vu, K-P. (2014). *HFES Accreditation Requirements, Guidelines, and Process*. (HFES webinar on accreditation).

DeLucia P. R. (2014). *Effects of Size on Collision Perception: Theoretical and Practical Implications*. Georgia Institute of Technology, School of Psychology, Engineering Psychology Program, February 25.

DeLucia, P. R. (2012). *Perceptual and Cognitive Factors in Minimally-Invasive Surgery*. Psychology Department colloquium, Rice University, Houston, TX. April 20.

DeLucia, P. R. (2009). Factors that influence TTC judgments and actions: Data and conceptual framework. Workshop on TTC Judgments and Eye Movements. Johannes Gutenberg-Universität Mainz, Germany.

DeLucia, P. R. (1997). *Effects of pictorial depth information on judgments of time-to-contact*. International Conference on Perception and Action, Toronto, Canada, July.

DeLucia, P. R. (1991). *Small near objects can appear farther than large far objects during object motion and self motion: Judgments of object-self and object-object collisions*. International Conference on Event Perception and Action, Amsterdam, The Netherlands.

DeLucia, P. R. (1991) *Pictorial and motion-based information for depth perception: Design Applications*. Federal Aviation Administration: Civil Aeromedical Institute, Oklahoma City.

DeLucia, P. R. (1991) *Pictorial and motion-based information for depth perception: Theory and Applications*. Wright State University, Dayton, Ohio.

DeLucia, P. R. (1990). *Issues in studies of perceived collision, or arrival of moving objects*. Workshop on the Control of Self-Motion: Methodological Issues, Wright State University, Dayton, August.

DeLucia, P. R. (1990). *Pictorial depth cues and motion-produced information for depth perception*. Visual Training Effectiveness Work Group of the United States Air Force, Williams Air Force Base, Phoenix, March.

## **Local (12)**

DeLucia, P. R. (2018). *Human Factors/Ergonomics in Health & Safety: Cognitive and Affective Factors*. Rice University Department of Psychological Sciences. Cognitive & Affective Neuroscience Area.

DeLucia, P. R. (2018). *Human Factors/Ergonomics in Health & Safety: Theory and Applications*. Rice University Department of Psychological Sciences, HCI/HF Area.

DeLucia, P. R. (2018). *The intrusion of cognition in collision perception*. Rice University Department of Psychological Sciences Cognitive & Affective Neuroscience Area..

DeLucia, P. R. (2018). *Human Factors/Ergonomics in health care*. Houston Methodist Center for Outcomes Research. Houston, Texas. September, 12.

DeLucia, P. R. (2016). *Perspectives on impact factor, h-index, and replications*. Texas STEM Librarian's Conference 2016. Panel. July 22, Texas Tech University.

DeLucia, P. R. (2014). *Introduction to Human Factors/Ergonomics*. Presented to the Clark Scholars at Texas Tech University (Honors College).

DeLucia, P. R. (2013). *Effects of Size on Collision Perception: Theoretical and Practical Implications*. Texas Tech University Department of Mechanical Engineering.

DeLucia, P.R. (2008). *Human Factors and Ergonomics in HealthCare*. Texas Tech University Rawls College of Business. Guest Lecture.

DeLucia, P.R. (2007). *Human Factors and Ergonomics: Relevance to HealthCare Organizations*. Texas Tech University Rawls College of Business. Guest Lecture.

DeLucia, P. R. (2001). *Judgments about collisions in texture-mapped simulations of self motion: Do display enhancements affect performance?* Texas Tech Student Chapter of the Human Factors & Ergonomics Society, February.

DeLucia, P. R. (1992). *Human factors for the future: Integrating basic and applied research*. Texas Tech Student Chapter of the Human Factors Society. February.

DeLucia, P. R. (1993). *Visual illusions: Can you believe your eyes? How research in visual perception improves airplane safety*. Presented at *Formula For Your Future*. This is a workshop for girl scouts to expand their horizons in science and math. Texas Tech University, March.

## **EXTRAMURAL FUNDING**

Kavraki, L., & DeLucia, P. R. (under review). *CHS: Medium: Task specification of robot assistants: A human-centered approach*. National Science Foundation. Request: \$1,200,000. Period: 5/1/19-4/30/23.

DeLucia, P. R. (2018-2019). *REU Site: Translational Research in Psychological Sciences; Human Factors at Rice University*. National Science Foundation. Role: PI. Award: \$264,077 (the portion of original \$348,936 transferred from Texas Tech University). 7/1/18-8/31/19.

DeLucia, P. R., & Yang, J. (2016-2018). *REU Site: Translational Research in Psychological Sciences; Human Factors at Texas Tech University*. National Science Foundation. Award: \$84, 859. Role: PI. 9/1/16-8/31/18. (Senior personnel: Davis, Hohman, Jones, Klein, Serra, Talley). (Total of original award: \$348,936).

DeLucia, P. R. (2015-2016). *Human system integration as a function of interface modality*. General Electric Co. Total Award: \$37,369. Role: PI. 6/1/15-2/29/16.

DeLucia, P. R. (2012-2013). *Eye movement behavior during confusion*. Honeywell International, Inc. Total Award: \$14,093. Role: PI. 6/1/12-10/15/13.

Ciarkowski, S., DeLucia, P., Esquibel, K., Stevenson, J., Titler, M., & Zheng, K. (2010-2013). *Assessing the effect of a handheld decision-support device for reducing medication errors*. United States Army Medical Research Materiel Command (TATRC). Total multi-institutional award with directs and indirects: \$703,000. Role: Co-PI (PI at TTU). TTU portion: \$50,387. 9/20/10 - 10/19/2012. PI: Zheng. Project Director: Gage.

DeLucia, P. R. (2001). *Visual memory for moving scenes and implications for transportation safety*. Texas Higher Education Coordinating Board, 1/1/02-8/31/04. Total Award: \$79,400. Note: 366 (12%) of 3100

applications were funded.

DeLucia, P. R. (1998). *Perceptual judgments about collision and implications for transportation safety*. Texas Higher Education Coordinating Board, 1/1/98-12/31/99. Total Award: \$57,500. Note: 398 (14%) of 2900 applications were funded.

DeLucia, P. R. (1998). *Information integration in judgments of temporal range*. NASA Ames Research Center, 3/1/98-6/30/2000. Total Award: \$75,000.

DeLucia (1988). National Science Foundation Dissertation Research Grant

DeLucia (1988). Sigma Xi, The Scientific Research Society: Grants-in-Aid

### **INTRAMURAL FUNDING**

Yang, J. and DeLucia, P.R. (2015). *Collaborative Research: Dynamic Human Motion Prediction under Uncertainty for Injury Prevention in Load-Handling Tasks*. OVPR Proposal Support Program. Total award from departments and OVPR: \$2500.

DeLucia, P. R. (2013). *Perception of time-to-collision during street-crossing*. Faculty Research and Scholarship Enhancement Award, Fall 2013: Scholar Incentive Award. Award: One course release.

Yang, J. (PI) & DeLucia, P. R. (Co-I) (2012). *Collaborative Research: Reliability-Based Standing Posture Prediction for Mitigation of Nurse Low Back Injury under Uncertainty*. Texas Tech University Proposal Stimulus Program FY2014. Award: \$8500.

Larsen, J. T., Cukrowicz, K. C., DeLucia, P. R., & Garos, S. (2008). *Capturing Attention: Service support for the Psychology Department's ASL H6.1 eye tracking system*. Texas Tech University Research Instrumentation Support Grant. \$2,400.

DeLucia, P. R. (1998). *Information integration in judgments of time-to-collision: Equipment to support a new grant from NASA-Ames Research Center*. Research Enhancement Fund, Texas Tech University. \$4,400.

DeLucia, P. R. (1994). *Pictorial Perception, and Memory for Visually Perceived Events*. Research Enhancement Fund, Texas Tech University. \$5,000.

DeLucia, P. R. (1993). *Information Processing Limits and Judgments about Collision*. Research Enhancement Fund, Texas Tech University. \$1,143.

DeLucia, P. R. (1992). *The Effects of Spatial Resolution and Image Size on Perceptual Performance: Issues in the Design of Visual Displays*. Research Enhancement Fund, Texas Tech University. \$2,945.

DeLucia, P. R. (1991). *Visual Information and Transportation Safety*. Research Enhancement Fund, Texas Tech University. \$3,000.

### **NEWS MEDIA (examples)**

Ahmed, S. (2017). How to go from next-gen tech to public failure. *Futurismo*: (Automotive News podcast)

Wray, H. (2012). Crash! Collisions in the mind's eye. *Huffington Post*.  
<http://www.huffingtonpost.com/wray-herbert/crash-collisions-in-the-m b 2205059.html>

*TTU psychology study: Motorcycle accidents may be linked to brain miscalculation distance*. Local news interview aired on KLBK.

Vehicle/Motorcycle accident regularity possibly linked to brain miscalculating time of impact of smaller objects. *Science Daily*. <http://www.sciencedaily.com/releases/2013/09/130909130942.htm>

Packard, E. (2007) Postgrad growth era: Engineering Psychology  
<http://www.apa.org/gradpsych/2007/03/engineering.aspx>