

# Jessica K. Witt, Ph.D.

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## Professional Experience

Professor	Department of Psychology (2018 – Present) Colorado State University, Fort Collins, CO
Associate Professor	Department of Psychology (2012 – 2018) Colorado State University, Fort Collins, CO
Assistant Professor	Department of Psychological Sciences (2007-2012) Purdue University, West Lafayette, IN
Visiting Scholar	Donders Institute for Brain, Cognition and Behavior (2010) Sponsor: Harold Bekkering Center for Cognition at Radboud University, Nijmegen, Netherlands
Postdoctoral Fellow	Department of Psychology and Neuroscience (2006-2007) Postdoc Mentors: Melvyn Goodale and Jody Culham Western University, London, ON Canada

## Education

Ph.D. (2007), M.A. (2003)	University of Virginia Department of Psychology Advisors: Dennis Proffitt, William Epstein, Daniel Willingham
B.A. (2000)	Smith College Majors: Psychology, Computer Science Advisor: Jill de Villiers

## Research Grants

*RAPID: COVID-19 Information Visualizations.* (Shah, PI; Witt, Tardif, Adar, co-PIs).  
Funded by the **National Science Foundation** (July 2020 - June 2021).  
Total amount awarded: \$200,000.

### Research Grants, continued

*The Effect of Action on Perception and Cognition.* (Witt is sole PI). Funded by the **National Science Foundation** (September 2016-August 2021). Total amount awarded: \$354,603.

*The Impact of Behavior Potential on the Decision to Act.* (Witt, PI; Conner, co-PI). Funded by the **National Science Foundation** (July 2014-June 2018). Total amount awarded: \$300,000.

*Action's Effect on Perception.* (Witt is sole PI). Funded by the **National Science Foundation** (June 2010-May 2015). Total amount awarded: \$350,000.

### Research Interests

- Information Visualization
- Climate Change Visualizations
- Visualizations for Medical Decision Making
- Visualizations for STEM Education
- Action-specific perception
- Perception of spatial layout
- Perception and action relationships
- Embodied perception, cognition, and education

### Awards

Resident Fellow, School of Global Environmental Sustainability (SoGES), Colorado State University (2019-2020).

American Psychological Association's Distinguished Scientific Award for an Early Career Contribution to Psychology (2017)

Association of Psychological Science's Janet Spence Award for Transformational Early Career Contributions (2015)

Psychonomic Society's Steven Yantis Early Career Award (2014)

James C. Naylor Award for Teaching Excellence in Psychology (2011)

Nominated for Purdue's Teaching Academy (2012) –nomination not accepted on account of leaving Purdue shortly thereafter

Gold medalist, US National Ultimate Frisbee team, World Games, Germany (2005)

First Place (\$500), UVA Graduate Research Fair. Charlottesville, VA. (2002)

Sigma Xi, International Honor Society for Scientific and Engineering Research (2000)

Psi Chi, National Honors Society for Psychology (2000)

Highest Honors, Senior Thesis, Smith College (2000)

WISA Scholar-Athlete (1999-2000)

## Society Memberships

Vision Sciences Society  
 Psychonomic Society (Fellow; Ethics Committee)  
 Association for Psychological Science (Fellow)  
 American Psychological Association (Fellow; Member-at-Large for Division 3  
 from 2016-2019)

## Publications

- Witt, J. K., & Clegg, B. A. (in press). Dynamic Ensemble Visualizations to Support Understanding for Uncertain Trajectories. *Journal of Experimental Psychology: Applied*.
- Witt, J. K. (in press). Tool use affects spatial perception. *Topics in Cognitive Science*.
- Hong, M. I., Witt, J. K., & Szafir, D. A. (in press). The weighted average illusion: Biases in perceived mean position in scatterplots. *IEEE Transactions on Visualization and Computer Graphics*.
- Witt, J. K., & van Der Wel, R. (in press). Perception and Action. In K. Hugenberg, D. Carlston, & K. Johnson (Eds). *Oxford Handbook of Social Cognition (Second Edition)*.
- Witt, J. K., & Warden, A. C. (2021). Better sensitivity to linear and non-linear trends with position than with color. *Journal of Vision, 21(5)*, 12: 1-13.
- Rohrer, J., Tierney, W., Uhlmann, E. L., DeBruine, L. M., Heyman, T., Jones, B., Schmukle, S. C., Silberzahn, R., Willen, R. M., Carlsson, R., Lucas, R. E., Strand, J., Vazire, S., Witt, J. K., Zentall, T. R., Chabris, C. F., & Yarkoni, T. (in press). Putting the self in self-correction: Findings from the loss-of-confidence project. *Perspectives in Psychological Science*.
- Witt, J. K. (2020). The precision-bias distinction for evaluating visual decision aids for risk perception. *Medical Decision Making, 40(6)*, 846-853.
- Laitin, E. L., & Witt, J. K. (2020). The Pong effect as a robust visual illusion: Evidence from manipulating instructions. *Perception, 49(12)*, 1362-1370.
- Witt, J. K., Parnes, J. E., & Tenhundfeld, N. L. (2020). Wielding a gun increases judgments of others as holding guns: A randomized controlled trial. *Cognitive Research: Principles and Implications, 5*, 58 (1-17).
- Tenhundfeld, N. L., & Witt, J. K. (2020). Can automation be embodied? Evaluating whether action automation influences visual perception. *Attention, Perception, & Psychophysics, 82*, 3234-3249.
- Witt, J. K., Kemmerer, D., Linkenauger, S. A., & Culham, J. (2020). Reanalysis suggests evidence for motor simulation in naming tools is limited: A commentary on Witt, Kemmerer, Linkenauger, & Culham (2010). *Psychological Science, 31(8)*, 1036-1039.
- Witt, J. K. (2020). Action's influence on spatial perception: Resolution and a mystery. *Current Opinion in Psychology, 32*, 153-157.
- Wickens, C. D., Clegg, B. A., Witt, J. K., Smith, C.A.P., Herdener, N., & Spahr, K. S. (2020). Model of variability estimation (MOVE): Factors influencing human

- prediction and estimation of variance in continuous information. *Theoretical Issues in Ergonomics Science*, 21(2), 220-238.
- Witt, J. K. (2019). Introducing hat graphs. *Cognitive Research: Principles and Implications*, 4, 31.
- Witt, J. K. (2019). Graph construction: An empirical investigation on setting the range of the y-axis. *Meta-Psychology*, 3, MP.2018.895.
- Witt, J. K. (2019). The perceptual experience of variability in line orientation is greatly exaggerated. *Journal of Experimental Psychology: Human Perception and Performance*, 45(8), 1083-1103.
- Laitin, E. L., Tymoski, M. J., Tenhundfeld, N. L., & Witt, J. K. (2019). The uphill battle for action-specific perception. *Attention, Perception, & Psychophysics*, 81, 778-793.
- Witt, J. K. (2019). Insights into criteria for statistical significance from signal detection analysis. *Meta-Psychology*, 3, MP.2018.871.
- Witt, J. K. (2018). In absence of an explicit judgment, action-specific effects still influence an action measure of perceived speed. *Consciousness and Cognition* [Special issue in memory of Bruce Bridgeman], 64, 95-105.
- Witt, J. K. (2018). Perception and action. In J. T. Wixted (Ed.), *Stevens' Handbook of Experimental Psychology and Cognitive Neuroscience* (4<sup>th</sup> ed., Vol. 2: Sensation, Perception, and Attention, pp. 489-523). New York: Wiley.
- Witt, J. K., Tenhundfeld, N. L., & Tymoski, M. J. (2018). Is there a chastity belt on perception? *Psychological Science*, 29(1), 139-146.
- King, Z.R., Tenhundfeld, N. L., & Witt, J. K. (2018). What you see and what you are told: An action-specific effect that is unaffected by explicit feedback. *Psychological Research*, 82(3), 507-519.
- Witt, J. K. (2018). Spatial biases from action. In T. Hubbard (Ed.), *Spatial Biases* (pp. 307-323). Cambridge: Cambridge University Press.
- Tenhundfeld, N. L., Parnes, J. E., Conner, B. T., & Witt, J. K. (2017). Development of a psychometrically valid gun attitude scale. *Current Psychology*, 1-8.
- Witt, J. K. (2017). A role for control in an action-specific effect on perception. *Journal of Experimental Psychology: Human Perception and Performance*, 43(10), 1791-1804.
- Witt, J. K. (2017). Action Potential Influences Spatial Perception: Evidence for Genuine Top-Down Effects on Perception. *Psychonomic Bulletin & Review*, 24(4), 999-1021.
- Tenhundfeld, N. L., & Witt, J. K. (2017). Distances on hills look farther than distances on flat ground: Evidence from converging measures. *Attention, Perception, & Psychophysics*, 79(4), 1165-1181.
- Witt, J. K. (2017). Replicability, response bias, and judgments, oh my! A new checklist for evaluating the perceptual nature of action-specific effects. In B. H. Ross (Ed.), *Psychology of Learning and Motivation* (Vol 66, pp. 117-165). Cambridge, MA: Academic Press.

- Witt, J. K., Tenhundfeld, N. L., & Bielak, A. A. M. (2017). Dissociating perception from judgment in the action-specific effect of blocking ease on perceived speed. *Attention, Perception, & Psychophysics*, *79* (1), 283-297.
- Taylor, J. E. T., Witt, J. K., & Pratt, J. (2017). A different kind of weapon focus: Simulated training with ballistic weapons reduces change blindness. *Cognitive Research: Principles and Implications*, *2*:3.
- Witt, J. K., Sugovic, M., Tenhundfeld, N. L., & King, Z. (2016). An Action-Specific Effect on Perception that Avoids All Pitfalls. *Behavioral and Brain Sciences*, *39*, e229.
- Witt, J. K., Taylor, J. E. T., Sugovic, M., & Wixted, J. T. (2016). Further clarifying signal detection theoretic interpretations of the Müller-Lyer and sound-induced flash illusions. *Journal of Vision*, *16*(11), 19 (1-7).
- Witt, J. K., Taylor, J. E. T., Sugovic, M., & Wixted, J. T. (2016). Corrigendum to Signal detection measures cannot distinguish perceptual biases from response biases. *Perception*, *45*(8), 964-965.
- Witt, J. K., Sugovic, M., & Dodd, M. D. (2016). Action-specific perception of speed is independent of attention. *Attention, Perception, & Psychophysics*, *78*(3), 880-890.
- Witt, J. K., Linkenauger, S. A., & Wickens, C. D. (2016). Action-specific effects in perception and their potential applications: A reply to commentaries. *Journal of Applied Research in Memory and Cognition*, *5*(1), 88-93.
- Witt, J. K., Linkenauger, S. A., & Wickens, C. D. (2016). Action-specific effects in perception and their potential applications. *Journal of Applied Research in Memory and Cognition*, *5*(1), 69-76.
- Sugovic, M., Turk, P., & Witt, J. K. (2016). Perceived distance and obesity: It's what you weigh, not what you think. *Acta Psychologica*, *165*, 1-8.
- Philbeck, J. W., & Witt, J. K. (2015). Action-specific influences on perception and post-perceptual processes: Present controversies and future directions. *Psychological Bulletin*, *141*(6), 1120-1144. [Both authors contributed equally.]
- Witt, J. K. (2015). *Sensation and Perception Laboratory Manual*. Colorado State University.
- Witt, J. K. (2015). Awareness is not a necessary characteristic of a perceptual effect: Commentary on Firestone (2013). *Perspectives on Psychological Science*, *10*(6), 865-872.
- Taylor, J. E. T., Pratt, J., & Witt, J. K. (2015). Joint attention for stimuli on the hands: Attention matters. *Frontiers in Psychology*, *6*, 543.
- Witt, J. K., Taylor, J. E. T., Sugovic, M., & Wixted, J. T. (2015). Signal detection measures cannot distinguish perceptual biases from response biases. *Perception*, *44*, 289-300. [Corrigendum published in 2016]
- Taylor, J. E. T., & Witt, J. K. (2015). Listening to music primes space: Pianists, but not novices, simulate heard actions. *Psychological Research*, *79*, 175-182.

- Witt, J. K., & Riley, M. (2014). Discovering your inner Gibson: Reconciling action-specific and ecological approaches. *Psychonomic Bulletin & Review*, *21*(6), 1353-1370. [Both authors contributed equally.]
- Taylor, J. E. T., & Witt, J. K. (2014). Altered attention for stimuli on the hands. *Cognition*, *133*, 211-225.
- Witt, J. K. (2014). The Costs of Action: Comment on "Action semantics: A unifying conceptual framework for the selective use of multimodal and modality-specific object knowledge" by Michiel van Elk, Hein van Schie and Harold Bekkering. *Physics of Life Reviews*, *11*, 265-266.
- Witt, J. K., South, S. C., & Sugovic, M. (2014). A perceiver's own abilities influence perception, even when observing others. *Psychonomic Bulletin & Review*, *21*, 384-389.
- Biggs, A. T., Brockmole, J. R., & Witt, J. K. (2013). Armed and attentive: Holding a weapon can bias attentional priorities in scene viewing. *Attention, Perception, & Psychophysics*, *75*, 1715-1724.
- Glenberg, A. M., Witt, J. K., & Metcalfe, J. (2013). From revolution to embodiment: 25 years of cognitive psychology. *Perspectives on Psychological Science*, *8*(5), 574-586. [All authors contributed equally.]
- Witt, J. K., & Sugovic, M. (2013). Catching ease influences perceived speed: Evidence for action-specific effects from action-based measures. *Psychonomic Bulletin & Review*, *20*, 1364-1370.
- Sugovic, M., & Witt, J. K. (2013). An older view of distance perception: Older adults perceive walkable extents as farther. *Experimental Brain Research*, *226*, 383-391.
- Witt, J. K., & Sugovic, M. (2013). Spiders appear to move faster than non-threatening objects regardless of one's ability to block them. *Acta Psychologica*, *143*, 284-291.
- Witt, J. K., & Sugovic, M. (2013). Response bias cannot explain action-specific effects: Evidence from compliant and non-compliant participants. *Perception*, *42*, 138-152.
- Brockmole, J. R., Davoli, C. C., Abrams, R. A., & Witt, J. K. (2013). The world within reach: Effects of hand posture and tool-use on visual cognition. *Current Directions in Psychological Science*, *22*, 38-44.
- Witt, J. K., & Brockmole, J. R. (2012). Action alters object identification: Wielding a gun increases the bias to see guns. *Journal of Experimental Psychology: Human Perception and Performance*, *38*, 1159-1167.
- Taylor, J. E. T., Witt, J. K., & Grimaldi, P. (2012). Uncovering the connection between artist and audience: Viewing painted brushstrokes evokes corresponding action representations in the observer. *Cognition*, *125*, 26-36.
- Witt, J. K., Sugovic, M., & Taylor, J. E. T. (2012). Action-specific effects in a social context: Others' abilities influence perceived speed. *Journal of Experimental Psychology: Human Perception and Performance*, *38*, 715-725.

- Witt, J. K., Linkenauger, S. A., & Proffitt, D. R. (2012). Get me out of this slump! Visual illusions improve sports performance. *Psychological Science, 23*, 397-399.
- Witt, J. K., & Sugovic, M. (2012). Does ease to block a ball affect perceived ball speed? Examination of alternative hypotheses. *Journal of Experimental Psychology: Human Perception and Performance, 38*, 1202-1214.
- Davoli, C. C., Brockmole, J. R., & Witt, J. K. (2012). Compressing perceived distance with remote tool-use: Real, imagined, and remembered. *Journal of Experimental Psychology: Human Perception and Performance, 38*, 80-89.
- Linkenauger, S. A., Witt, J. K., & Proffitt, D. R. (2011). Taking a hands-on approach: Apparent grasping ability scales the perception of object size. *Journal of Experimental Psychology: Human Perception and Performance, 37*, 1432-1441.
- Witt, J. K. (2011). Action's effect on perception. *Current Directions in Psychological Science, 20*, 201-206.
- Witt, J. K. (2011). Tool use influences perceived shape and parallelism: Indirect measures of perceived distance. *Journal of Experimental Psychology: Human Perception and Performance, 37*, 1148-1156.
- Witt, J. K., Schuck, D. M., & Taylor, J. E. T. (2011). Action-specific effects underwater. *Perception, 40*, 530-537.
- Taylor, J. E. T., Witt, J. K., & Sugovic, M. (2011). When walls are no longer barriers: Perception of wall height in parkour. *Perception, 40*, 757-760.
- Witt, J. K., & Sugovic, M. (2010). Performance and ease influence perceived speed. *Perception, 39*, 1341-1353.
- Witt, J. K., Kemmerer, D., Linkenauger, S. A., & Culham, J. (2010). A functional role for motor simulation in naming tools. *Psychological Science, 21*, 1215-1219.
- Witt, J. K., Proffitt, D. R., & Epstein, W. (2010). When and how are spatial perceptions scaled? *Journal of Experimental Psychology: Human Perception and Performance, 36*, 1153-1160.
- Miles, J. D., Witt, J. K., & Proctor, R. W. (2010). Action plans produce separate Simon effects for picking up objects and transporting them. *Psychological Research, 74*, 468-475.
- Witt, J. K., & Dorsch, T. (2009). Kicking to bigger uprights: Field goal kicking performance influences perceived size. *Perception, 38*, 1328-1340.
- Witt, J. K., Linkenauger, S. A., Bakdash, J. Z., Augustyn, J. A., Cook, A. S., & Proffitt, D. R. (2009). The long road of pain: Chronic pain increases perceived distance. *Experimental Brain Research, 192*, 145-148.
- Linkenauger, S. A., Witt, J. K., Bakdash, J. Z., Stefanucci, J. K., & Proffitt, D. R. (2009). Asymmetrical body perception: A possible role for neural body representations. *Psychological Science, 20*, 1373-1380.
- Linkenauger, S. A., Witt, J. K., Stefanucci, J. K., Bakdash, J. Z., & Proffitt, D. R. (2009). The effects of handedness and reachability on perceived distance. *Journal of*

*Experimental Psychology: Human Perception and Performance*, 35, 1649-1660.

- Witt, J. K., Linkenauger, S. A., Bakdash, J. Z., & Proffitt, D. R. (2008). Putting to a bigger hole: Golf performance relates to perceived size. *Psychonomic Bulletin and Review*, 15, 581-585.
- Witt, J. K., Ashe, J., & Willingham, D. T. (2008). An egocentric frame of reference for implicit motor skill learning. *Psychological Research*, 72, 542-552.
- Witt, J. K., & Proffitt, D. R. (2008). Action-specific influences on distance perception: A role for motor simulation. *Journal of Experimental Psychology: Human Perception and Performance*, 34, 1479-1492.
- Witt, J. K., & Proffitt, D.R. (2007). Perceived slant: A dissociation between perception and action. *Perception*, 36, 249-257.
- Witt, J. K., Stefanucci, J.K., Riener, C.R., & Proffitt, D.R. (2007). Seeing beyond the target: Environmental context affects distance perception. *Perception*, 36, 1752-1768.
- Witt, J. K., & Willingham, D.T. (2006). Evidence for separate representations for action and location in implicit motor sequencing. *Psychonomic Bulletin and Review*, 13, 902-907.
- Witt, J. K., Proffitt, D.R., & Epstein, W. (2005). Tool use affects perceived distance but only when you intend to use it. *Journal of Experimental Psychology: Human Perception and Performance*, 31, 880-888.
- Witt, J. K., & Proffitt, D.R. (2005). See the ball, hit the ball: Apparent ball size is correlated with batting average. *Psychological Science*, 16, 937-938.
- Witt, J. K., Proffitt, D.R., & Epstein, W. (2004). Perceiving distance: A role of effort and intent. *Perception*, 33, 570-590.

### **Published Conference Proceedings**

- Witt, J. K., Clegg, B. A., Blalock, L. D., & Warden, A. C. (2021). The impact of familiarity on Visualizations of spatial uncertainty. *Human Factors and Ergonomics Society*.
- Witt, J. K., Clegg, B. A., Wickens, C. D., Smith, C. A. P., Laitin, E. L., & Warden, A. C. (2020). Dynamic ensembles versus cones of uncertainty: Visualizations to support understanding of uncertainty in hurricane forecasts. *Human Factors and Ergonomics Society*, 64(1), 1644-1648.
- Tenhundfeld, N. L., & Witt, J. K. (2015). The effects of interoceptive attunement on action-specific perception. *Visual Cognition*, 23(7), 837-840.
- Sugovic, M., & Witt, J. K. (2011). Perception in obesity: Does physical or perceived body size affect perceived distance? *Visual Cognition*, 19(10), 1323-1325.
- Claxton, L. J., Witt, J. K., Ryu, J. H., & Haddad, J. M. (2011). Anticipation in the dorsal stream. *Journal of Sport and Exercise Psychology*, 33, S63-S64.
- Jordan, J. S., Witt, J. K., & Riley, M. (2010). Prospective Perception. *Proceedings of the Annual Meeting of the Cognitive Science Society*, 32, 344-345.



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### **Popular Media Reports Regarding Witt & Clegg (2021)**

The official hurricane forecast track could be confusing the public (July 31, 2021). *CNN*.

Researchers want 'zoomies' to enhance the standard hurricane forecast cone (August 2, 2021). *CNN*.

### **Popular Media Reports Regarding Witt & Proffitt (2005)**

The Grapefruit League (November 29, 2005). *The New York Times*, p. D1

Science Finds Explanation for Hitting Streaks (December 3, 2005). *Toronto Star*.

Better Batters See Balls as Bigger (December 15, 2005). *MSNBC; Yahoo News*.

Is the Ball Big or Small? (December 15, 2005). *Toronto Globe and Mail*.

Big News (December 16, 2005). *Seattle Post-Intelligencer*.

Batter Up (January 16, 2006). *St. Louis Post-Dispatch*.

Quiz (January 21, 2006). *Michael Feldman's Whad'Ya Know?* on *NPR*.

Big Eyes (January 29, 2006). *Washington Post*.

Better Means Bigger (February 2, 2006). *Richmond Times-Dispatch*.

Think Big (June, 2006). *Self Magazine*.

Six ways your body changes your perception (February, 2016). *Science Magazine* (article also cites Witt et al., 2005; Witt & Dorsh, 2009; Sugovic et al., 2016, and Taylor et al., 2011)

Baseball players see the ball as way bigger than you do (October, 2016). *Science of Us at NYMag.com*.

### **Popular Media Reports Regarding Witt et al. (2008) in *PBR***

Secret to Better Golf Scores Discovered (July 7, 2008). *Yahoo News*.

Better golfers 'see' a bigger hole (July 7, 2008). *USAToday.com*.

Better golfers see bigger holes (July 8, 2008). *Fox News*.

The secret(s) to better golf (July 8, 2008). *GolfDigest.com*.

Do top athletes see the world differently? (July 9, 2008). *The Bryant Park Project on NPR*.

Making a "hole" lot of sense out of golfing (July 9, 2008). *Fox 23 News Albany*.

Golfers see the hole differently (July 9, 2008). *Los Angeles Times*.

Improve your golf game (July 11, 2008). *The Thunder 103.5*.

Size of hole a state of mind? (July 13, 2008). *Lafayette Journal & Courier*.

Are you feeling up to par? (July 20, 2008). *Toronto Sun*.

Athletes in the zone may see the world differently (August 5, 2008). *ABC News*.

Fields of study (August 11, 2008). *ESPN Magazine*.

Five Live (December 30, 2008). *BBC*.

**Popular Media Reports Regarding Witt & Proffitt (2008) in JEP:HPP**

Body of Thought (January/February, 2011). *Scientific American Mind*.

**Popular Media Reports Regarding Witt & Dorsch (2009) in Perception**

Missed kicks make brain see smaller goal post (October 16, 2009). *Wired.com*.

Making hard things look easy (October 23, 2009). *The Week*.

A kicker's perception of goal posts changes depending on success. (January 3, 2010).  
*Kansas City Star*.

Looks can deceive (July/August, 2010) Consciousness Redux in *Scientific American Mind*.

Scoring makes the goal seem bigger (June 28, 2014). *The Guardian*.

**Popular Media Reports Regarding Witt & Sugovic (2010) in Perception**

Tennis players' performance may affect how they perceive ball speed and net height (December 2, 2010). *LA Times*.

**Popular Media Reports Regarding Witt (2011) in Current Directions in Psychological Science**

The US Open and the vagaries of spatial perception (June 16, 2011).  
*HuffingtonPost.com*

In the hole! Golfing in the mind's eye (June 15, 2011). *PsychologicalScience.org*

**Popular Media Reports Regarding Witt et al., (2012) in Psychological Science**

Head Games: How visual illusions improve sports performance. (March 15, 2012).  
*Time Magazine*.

Illusions may improve athletic performance (March 15, 2012). *PsychCentral*.

Get me out of this slump: Visual illusions improve sports performance (March 13, 2012). *ScienceDaily.com*.

Live interview (March 15, 2012). *WNEW 99.1 DC*.

Changing the apparent size of the hole messes with golfers' putting (March 19, 2012). *Arstechnica.com*.

How perception can boost performance (March 28, 2012). *New York Times*.

Can you think your way to that hole-in-one? (April 18, 2012). Live interview on *NPR: Morning Edition*.

**Popular Media Reports Regarding Witt & Brockmole (2012) in JEP:HPP**

Gun activists have a new craze – and it's *more* dangerous than you think (December 18, 2013). *Salon.com*.

Florida teen's slaying spotlights phantom gun effect (March 20, 2012).  
*Chicago Tribune*.

Holding a gun may make you think others are as well (March 21, 2012). *The Daily Star*.

Holding a gun influences you to think others are armed (March 21, 2012).  
*Forbes*.

Context for Fla. Shooting? Study finds holding gun makes you likely to think  
others have guns (March 21, 2012). *The Washington Post*.

Trayvon Martin Case: Study shows holding gun makes you think others are  
too. (March 20, 2012). *Huffington Post*.

Trayvon Martin Case: Study shows holding gun increases perception of threat  
(March 21, 2012). *GlobalPost.com*.

Florida teen's slaying spotlights phantom gun effect (March 20, 2012).  
*Reuters*.

Holding gun increases perception of threat (March 21, 2012). *CBS News*.

Holding a gun may make you think others are too (March 20, 2012). *San  
Francisco Chronicle*.

Gun-toting increases bias to see guns toted (March 22, 2012). *Scientific  
American*.

Holding a gun may make you think others are too (March 20, 2012). *Wall  
Street Journal*.

Live interview (December 20, 2012). *KCOL Fox News Radio*.

Perception and action: Seeing guns that aren't there (December 21, 2012).  
*Psychology Today*.

Live interview (January 2, 2013). *Word of Mouth* on New Hampshire Public  
Radio.

Where is Thought? (June, 2013). *Discover Magazine*.

Live interview (July 12, 2013). *Huffington Post*.

Gun activists have a new craze – and it's more dangerous than you think.  
(December 18, 2013). *Salon.com*

Guns don't offer protection – whatever the National Rifle Association says.  
(March 25, 2013). *The Guardian*.

What if George Zimmerman had not had a gun? (July 14, 2013). *The Chicago  
Sun Times*.

Guns and cheerleaders: How science gets manipulated for political agendas  
(December 21, 2013). *The Delaware Libertarian*.

More firearms don't mean more protection (June 6, 2014). *CeaseFirePA.org*.

**Popular Media Reports Regarding Sugovic, Turk, & Witt (2016) [or regarding Witt  
(2016) talk at AAAS]**

For obese people distances really do look further, study finds (February, 2016). *The  
Guardian*

Obese people 'can't just distances accurately' (February, 2016). *The Week*.

How fat people see the world differently: Being overweight makes distances look  
further away and hills harder to climb (February, 2016). *The DailyMail.Com*.

Obese 'see hills as steeper and objects being twice as far away as slimmer people'  
(February, 2016). *Express (home of the Daily and Sunday Express)*.

For the obese, objects are closer than they appear (February, 2016). *Newser*.

Obese people live in altered reality where they can't judge distances accurately, scientists say (February, 2016). *The Telegraph*.

The more you weigh, the further distances appear (February, 2016).

Fat people judge distances to be TWICE as long as healthy people claim scientists (February, 2016). *The Mirror*.

Distance is hard to judge for fat people explains new research (February, 2016). *The Sun*.

Distances look further to obese people, say scientists (February, 2016). *ITV*.

Hills look steeper if you're overweight (February, 2016). *Australian Women's Weekly*.

Hills look bigger to fat people (February, 2016). *The Sunday Times (UK)*.

The more you weigh, the further distances appear (February, 2016). *The Tribune (India)*.

The more you weigh, the further distances appear (February, 2016). *Deccan Chronicle; The Asian Age; NewKerala.com; The Siasat Daily (India), ANI News (India)*.

Scientists reckon that obese people aren't very good at judging distances (February, 2016). *Irish Examiner; BreakingNews.IE (Ireland)*,

Obesity affects perception of distance, research finds (February, 2016). *The Irish Times*.

Fat chance of obese people judging the right distance, say scientists (February, 2016). *South Wales Guardian; Times of Malta.com; Express and Star; Belfast Telegraph, AOL.Com (UK)*.

Here's why obese & over weight people do not like exercises like running (February, 2016). *TheHealthSite.com*.

Brains of obese people see distances differently (February, 2016). *The Scotsman*.

Ball really looks bigger to better hitters (February, 2016). *60-second science, Scientific American*.

How your size affects how you experience the world (April 3, 2016). *Psychology Today*.

Overweight people judge distances to be further than they really are (June 24, 2016). *Science of Us at New York Magazine*.

Your momma is so fat, her depth perception is widely inaccurate (February 18, 2016). Joke performed by Stephen Colbert on The Late Show with Stephen Colbert.

### Textbook References

Robinson-Riegler & Robinson-Riegler (2012). *Cognitive Psychology: Applying the Science of the Mind* (3<sup>rd</sup> edition). Pearson, Boston, MA. [Describes Witt & Proffitt, 2005; Witt et al., 2008; Witt et al., 2009]

Foley, & Matlin (2010). *Sensation & Perception (5<sup>th</sup> edition)*. [Describes Witt et al., 2005, 2008; Witt & Proffitt, 2005, 2008]

Goldstein (2007, 2009, 2010). *Sensation & Perception (7<sup>th</sup>, 8<sup>th</sup>, & 9<sup>th</sup> editions)*. [Describes Witt, 2011; Witt & Dorsch, 2009; Witt & Proffitt, 2005; Witt & Sugovic, 2010; Witt et al., 2004, 2010]

Blake & Sekuler (2005). *Perception (5<sup>th</sup> edition)*. [Describes Witt & Proffitt, 2005]

### Miscellaneous

Action and visual perception: What we see is biased by what we do (December, 2016). *Science Brief* written for the American Psychological Association.

Dress drama debunked: The explanation behind the blue, black or white, gold dress (March 5, 2015). Interview for *The Collegian*.

### Invited Colloquia

University of Colorado, School of Medicine (2021)

University of Colorado Anschutz Medical Campus (2020)

University of Victoria – Canada (2020)

University of Colorado-Boulder (2019)

Association of Psychological Science (APS) Presidential Symposium (2017)

University of Virginia (2017)

University of Colorado-Boulder (2016)

TEDxCSU (2016)

University of Waterloo (2015)

Smith College (2015)

Yale University (2015)

Georgia Institute of Technology (2015)

University of Wyoming (2015)

Pre-conference on Embodiment in Social and Personality Psychology @ SPSP (2013)

North Dakota State University (2013)

Duke University (2012)

Vanderbilt University's Vision Research Seminar Series (2012)

University of Colorado-Colorado Springs (2012)

Georgetown University's workshop on Reality and Perceptual Illusions in Cognitive Science (2012)

Indiana University (2012)

Lake Ontario Visionary Establishment (L.O.V.E.), Niagara Falls, ON (2012)

Denison University (2011)

Universität Würzburg, Würzburg, Germany (2010)

Ecole Polytechnique Fédérale de Lausanne, Lausanne, Switzerland (2010)

Vrije Universiteit, Amsterdam, Netherlands (2010)

Istituto Italiano di Tecnologia, Genova, Italy (2010)

University of Notre Dame (2010)

Brown University (2009)  
 University of Cincinnati (2009)  
 Illinois State University (2009)  
 Midwest Psychology Association (MPA) annual meeting. Chicago, IL (2009)  
 Arizona State University (2009)  
 University of Chicago (2008)  
 DePauw University (2008)  
 Lake Forest College (2008)  
 Indiana University (2008)  
 Purdue University (2007)  
 University of Western Ontario, London, Ontario (2006)  
 Vanderbilt University (2006)  
 Rutgers University (2004)  
 University of California at Santa Barbara (2003)

### Professional Service and Outreach

#### Professional Committees:

Ethics Committee, Psychonomic Society	(2018 – present)
Awards Committee, Psychonomic Society	(2017 – 2019)
Member-at-Large, APA – Division 3	(2016 – 2019)

#### Associate Editor:

<i>Journal of Experimental Psychology:</i> <i>Human Perception and Performance</i>	(2015-2016)
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#### Editorial Board/Consulting Editor:

<i>Cognitive Research: Principles &amp; Implications</i>	(2021-present)
<i>JEP: Human Perception and Performance</i>	(2011-present)
<i>Psychological Science</i>	(2011-2019)
<i>Journal of Experimental Psychology: General</i>	(2011-2015)
<i>Attention, Perception, &amp; Psychophysics</i>	(2015)
<i>Collabra</i>	(2015-2017)
<i>Frontiers in Cognition</i>	(2011-2017)
<i>PLoS ONE</i>	(2011-2013)

#### Grant reviewer for the following agencies:

*National Science Foundation*  
*French National Research Agency (ANR)*  
 North Dakota Department of Commerce

**Peer-Reviewer for**

Acta Psychologia	JEP: Learning, Memory, and Cognition
Adaptive Behavior	Journal of Experimental Social Psychology
American Journal of Psychology	Journal of Mind and Behavior
Attention, Perception, & Psychophysics	Journal of Motor Behavior
Archives of Gerontology & Geriatrics	Journal of Neurophysiology
Autism Research	Neuroscience & Biobehavioral Reviews
Behavior Research Methods	Perception
British Journal of Psychology	Perspectives on Psychological Sciences
Child Development	PLoS One
Cognition	Psychological Research
Cognitive Psychology	Psychological Science
Experimental Brain Research	Psychonomic Bulletin & Review
Experimental Psychology	Scientific Reports (Nature)
Frontiers in Cognition	Quarterly Journal of Experimental Psychology
International Journal of Sport Psychology	Visual Cognition
IEEE-VIS	
JEP: General	
JEP: Human Perception and Performance	

**University/College/Department Committees:**

Committee for Faculty Governance, Representative for College of Natural Sciences, Colorado State University (2020-present)

Executive Committee, Colorado State University, Department of Psychology (2015-present; chair starting 2019)

Chair of Promotion and Tenure Committee, Colorado State University, Department of Psychology (2018, 2020)

Quantitative Committee, Colorado State University, Department of Psychology (2018-present, co-founder)

Department Colloquium Series organizer, Colorado State University (2015-2018, 2019-present)

Executive Committee, Purdue University, Department of Psychology (2011-2012)

Cognitive Area Colloquium Series organizer, Purdue University (2009-2012)

**Outreach and Advising:**

Speaker, Family Science Days, AAAS Annual Meeting (2016)

Speaker, Front Range Teen Science Café (2015)

Faculty advisor for Men’s and Women’s Ultimate Frisbee teams and Men’s Squash team at Purdue University (2008-2012)

Participation in “Science Research Course” at Jefferson High School, which pairs Purdue University faculty with local high school students for scientific collaborations (2007-2008)

Educational outreach about scientific research to 5<sup>th</sup> graders from Challenge Foundation Academy (December, 2009)

**Teaching Experience**

PSY 252 – Mind, Brain, and Behavior, Colorado State University

PSY 456 – Sensation and Perception, Colorado State University

PSY 456H – Sensation and Perception Honors Section, Colorado State University

PSY 457 – Sensation and Perception Laboratory (supervisor), CSU

PSY 600D – Core Course on Sensation and Perception, Colorado State University

PSY 692B/792B – Seminar on Psychology Replication Crisis, Colorado State University

PSY 692B/792B – Seminar on Perception and Action, Colorado State University

PSY 692B/792B – Seminar on Visualizations, Embodied Cognition, and Statistical Practices for the Psychological Sciences, Colorado State University

PSY 310 - Sensory and Perceptual Processes, Purdue University

PSY 310H – Honors Section for PSY 310 (focus on conducting research)

PSY 200 – Cognitive Psychology, Purdue University

PSY 628 – Perceptual Processes, Purdue University

PSY 633 – Cognitive Seminar on Perception and Action, Purdue University

**Teaching Interests**

- Introduction to Perception
- Introduction to Cognition
- Data Visualizations
- Seminar: Theories of Perception
- Seminar: Perception and Action
- Seminar: Embodied Cognition
- Seminar: Open Science



**Students Advised**

Amelia Warden (current)  
Emily Laitin (M.S., expected 2021)  
Michael Tymoski (M.S., expected 2021)  
Nathan Tenhundfeld (Ph.D., 2017)  
Marcos Janzen (visiting scholar, 2016-2017)  
Zachary King (M.S., 2016)  
Mila Sugovic (Ph.D., 2013)  
Eric Taylor (Ph.D., 2013)