

Brian A. Anderson
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ACADEMIC APPOINTMENTS

Associate Professor <i>Texas A&M University</i>	2020-
Director of Human Imaging <i>Department of Psychological & Brain Sciences, Texas A&M University</i>	2019-
Assistant Professor <i>Texas A&M University</i>	2016-2020
Postdoctoral Scientist <i>Johns Hopkins University</i>	2014-2016

EDUCATION

Ph.D. in Psychological and Brain Sciences <i>Johns Hopkins University</i> Thesis Advisor: Dr. Steven Yantis	2014
M.S. in Psychology <i>Villanova University</i> Thesis Advisor: Dr. Charles Folk	2009
B.A. in Social Science (summa cum laude with honors) <i>University of Maine at Augusta</i>	2006

AWARDS AND HONORS

Distinguished Scientific Award for an Early Career Contribution to Psychology: Perception and Motor Performance (American Psychological Association)	2021
Named Ray A. Rothrock '77 Fellow (College of Liberal Arts, Texas A&M University)	2020
Steven Yantis Early Career Award (Psychonomic Society)	2019
National Eye Institute Early Career Scientist Travel Grant (Vision Sciences Society)	2019

Rising Star Award (Association for Psychological Science)	2019
New Investigator Award: Human Perception & Performance (American Psychological Association, Division 3)	2015
Select-Speaker Award (Psychonomic Society)	2014
G. Stanley Hall Scholar's Award (Johns Hopkins University)	2013
Robert S. Waldrop Junior Investigator's Award (Johns Hopkins University)	2012
Walter L. Clark Collaborative Research Award (Johns Hopkins University)	2012
Ingeborg L. and O. Byron Ward Outstanding Thesis Award (Villanova University)	2009
Alumni Association Textbook Scholarship (Villanova University)	2008
Travel Award (Villanova University)	2008
Full Graduate Assistantship (Villanova University)	2008
Distinguished Social Science Student (University of Maine at Augusta)	2007

SOURCES OF FUNDING

Pending

2020-2022 NIH R21: *Aversive Information Processing Biases in Nicotine Dependence*. Role: PI, 3.5 months. Total direct costs requested: \$275,000.

Impact score: 20, percentile: 7

Active

2020-2022 Texas A&M University Research Development Fund: *Acquisition of a 3T Whole Body MRI Scanner Dedicated for Human Neuroscience Research*. Role: Project Lead. Total direct costs: \$2,956,890.

2020-2022 T3: Texas A&M Triads for Transformation: *Information Visualization for Real-Time Sensing in Supervisory Control*. Role: co-PI (with Farzan Sasangohar & Anthony McDonald). Total direct costs: \$30,000.

2020-2023 NSF: *Breaking Risk Habituation to Occupational Hazards using Virtual Reality Interventions with Aversive Sensory Feedback*. Role: co-PI (with Changbum Ryan Ahn), 1.0 months. Total direct costs requested: \$522,258.

2019-2023 NIH R01-DA046410: *Components of selection history and the control of attention*. Role: PI, 3.5 months. Total direct costs: \$1,187,500.

2016-2021 NIH R01-DA041264: *HIV-Related Neuroplasticity and Attention-to-Reward as Predictors of Real World Function*. Role: co-I, 2.0 months (PI: Cherie Marvel). Total direct costs: \$1,423,760 (\$129,258 subcontract with Texas A&M).

Completed

2018-2020 NARSAD Young Investigator Award: *Decomposing Value-Driven Attention*. Role: PI, 1.0 months. Total direct costs: \$70,000.

- 2018-2020** T3: Texas A&M Triads for Transformation: *How Do Drivers' Attitudes and Emotions Affect Their Attention and Behavior Toward Bicyclists?* Role: co-PI (with Tarra Goddard & Anthony McDonald). Total direct costs: \$30,000.
- 2017-2018** PESCA (Texas A&M): *Neural Mechanisms of Attention to Pain Cues*. Role: co-PI (with Vani Mathur). Total direct costs: \$17,977.
- 2017-2018** College of Liberal Arts Seed Grant Program (Texas A&M): *Neural Mechanisms of Reward-Related Failures of Inhibitory Control*. Role: PI. Total direct costs: \$8,000.
- 2015-2017** Landenberger Foundation Grant: *Identifying the Neurocognitive Determinants of HIV-Risk Behaviors*. Role: co-I, 1.32 months (PI: Cherie Marvel). Total direct costs: \$200,000.
- 2013-2014** NIH P30-MH075673: *Examining the Role of Attentional Bias on Risk Taking Behavior in HIV+ Patients*. Role: co-I (PI: Justin McArthur). Total direct costs: \$50,000.
- 2012-2014** NIH F31-DA033754: *Mechanisms of Value-Driven Attentional Capture*. Role: PI. Sponsors: Steven Yantis (primary) and Cherie Marvel. Total direct costs: \$126,696.

PUBLICATIONS

Google Scholar: Citations = 4169, h-index = 31, i10-index = 48

Original research articles

in press

- Kim, H., Nanavaty, N., Ahmed, H., Mathur, V. A., & **Anderson, B. A.** (in press). Motivational salience guides attention to valuable and threatening stimuli: Evidence from behavior and fMRI. *Journal of Cognitive Neuroscience*.
- Kim, A. J., Lee, D. S., & **Anderson, B. A.** (in press). Previously reward-associated sounds interfere with goal-directed auditory processing. *Quarterly Journal of Experimental Psychology*.
- Gregoire, L., Kim, H., & **Anderson, B. A.** (in press). Punishment-modulated attentional capture is context-specific. *Motivation Science*.
- Mikhael, S., Watson, P., **Anderson, B. A.**, & Le Pelley, M. E. (in press). You do it to yourself: Attentional capture by threat-signaling stimuli persists even when entirely counterproductive. *Emotion*.
- Gregoire, L., Britton, M. K., & **Anderson, B. A.** (in press). Motivated suppression of value- and threat-modulated attentional capture. *Emotion*.
- Kim, H., & **Anderson, B. A.** (in press). How does the attention system learn from aversive outcomes? *Emotion*.
- Kim, N., **Anderson, B. A.**, & Ahn, C. R. (in press). Reducing risk habituation to struck-by hazards in a road construction environment using virtual reality behavioral intervention. *Journal of Construction Engineering and Management*.

Kim, A. J., & **Anderson, B. A.** (in press). How does threat modulate the motivational effects of reward on attention? *Experimental Psychology*.

2021

Kim, H., & **Anderson, B. A.** (2021). Combined influence of valence and statistical learning on the control of attention: Evidence for independent sources of bias. *Cognition*, *208*, 104554.

Kim, A. J., Lee, D. S., & **Anderson, B. A.** (2021). The influence of threat on the efficiency of goal-directed attentional control. *Psychological Research*, *85*, 980-986.

Britton, M. K., & **Anderson, B. A.** (2021). Attentional avoidance of threatening stimuli. *Psychological Research*, *85*, 82-90.

Gregoire, L., Kim, A. J., & **Anderson, B. A.** (2021). Semantic generalization of punishment-related attentional priority. *Visual Cognition*, *29*, 310-317.

Anderson, B. A. (2021). Using aversive conditioning with near-real-time feedback to shape eye movements during naturalistic viewing. *Behavior Research Methods*, *53*, 993-1002.

2020

Kim, A. J., & **Anderson, B. A.** (2020). The effect of concurrent reward on aversive information processing in the brain. *NeuroImage*, *217*, 116890.

Kim, A. J., & **Anderson, B. A.** (2020). Arousal-biased competition explains reduced distraction by reward cues under threat. *eNeuro*, *7*, ENEURO.0099-20.2020.

Kim, A. J., & **Anderson, B. A.** (2020). Threat reduces value-driven but not salience-driven attentional capture. *Emotion*, *20*, 874-889.

Kim, A. J., & **Anderson, B. A.** (2020). Neural correlates of attentional capture by stimuli previously associated with social reward. *Cognitive Neuroscience*, *11*, 5-15.

Liao, M.-R., & **Anderson, B. A.** (2020). Reward learning biases the direction of saccades. *Cognition*, *196*, 104145.

Liao, M.-R., Britton, M. K., & **Anderson, B. A.** (2020). Selection history is relative. *Vision Research*, *175*, 23-31.

Liao, M.-R., & **Anderson, B. A.** (2020). Inertia in value-driven attention. *Learning and Memory*, *27*, 488-492.

Liao, M.-R., Gregoire, L., & **Anderson, B. A.** (2020). The influence of threat and aversive motivation on conflict processing in the Stroop task. *Attention, Perception, and Psychophysics*, *82*, 2802-2813.

Britton, M. K., & **Anderson, B. A.** (2020). Specificity and persistence of statistical learning in distractor suppression. *Journal of Experimental Psychology: Human Perception and Performance*, *46*, 324-334.

Goddard, T., McDonald, A. D., Alambeigi, H., Kim, A. J., & **Anderson, B. A.** (2020). Unsafe bicyclist overtaking behavior in a simulated driving task: The role of implicit and explicit attitudes. *Accident Analysis and Prevention*, *144*, 105595.

Anderson, B. A., & Britton, M. K. (2020). On the automaticity of attentional orienting to threatening stimuli. *Emotion, 20*, 1109-1112.

Anderson, B. A., & Kim, A. J. (2020). Selection history-driven signal suppression. *Visual Cognition, 28*, 112-118.

Anderson, B. A., Kim, H., Britton, M. K., & Kim, A. J. (2020). Measuring attention to reward as an individual trait: The value-driven attention questionnaire (VDAQ). *Psychological Research, 84*, 2122-2137.

2019

Kim, H., & **Anderson, B. A.** (2019). Dissociable components of experience-driven attention. *Current Biology, 29*, 841-845.

Kim, H., & **Anderson, B. A.** (2019). Neural evidence for automatic value-modulated approach behavior. *NeuroImage, 189*, 150-158.

Kim, H., & **Anderson, B. A.** (2019). Dissociable neural mechanisms underlie value-driven and selection-driven attentional capture. *Brain Research, 1708*, 109-115.

Gregoire, L., & **Anderson, B. A.** (2019). Semantic generalization of value-based attentional priority. *Learning and Memory, 26*, 460-464.

Anderson, B. A., & Kim, H. (2019). Test-retest reliability of value-driven attentional capture. *Behavior Research Methods, 51*, 720-726.

Anderson, B. A., & Kim, H. (2019). On the relationship between value-driven and stimulus-driven attentional capture. *Attention, Perception, and Psychophysics, 81*, 607-613.

Anderson, B. A., & Britton, M. K. (2019). Selection history in context: Evidence for the role of reinforcement learning in biasing attention. *Attention, Perception, and Psychophysics 81*, 2666-2672.

Hinault, T., Blacker, K. J., Gormley, M., **Anderson, B. A.**, & Courtney, S. M. (2019). Value-driven attentional capture is modulated by the contents of working memory: An EEG study. *Cognitive, Affective, and Behavioral Neuroscience, 19*, 253-267.

2018

Anderson, B. A., & Kim, H. (2018). Mechanisms of value-learning in the guidance of spatial attention. *Cognition, 178*, 26-36.

Anderson, B. A., & Kim, H. (2018). On the representational nature of value-driven spatial attentional biases. *Journal of Neurophysiology, 120*, 2654-2658.

Anderson, B. A., & Kim, H. (2018). Relating attentional biases for stimuli associated with social reward and punishment to autistic traits. *Collabra: Psychology, 4(1)*, article 10.

Sali, A. W., **Anderson, B. A.**, Yantis, S., Mostofsky, S. H., & Rosch, K. S. (2018). Reduced value-driven attentional capture among children with ADHD compared to typically developing controls. *Journal of Abnormal Child Psychology, 46*, 1187-1200.

2017

Anderson, B. A., Kuwabara, H., Wong, D. F., Roberts, J., Rahmim, A., Brasic, J. R., & Courtney, S. M. (2017). Linking dopaminergic reward signals to the development of attentional bias: A positron emission tomographic study. *NeuroImage, 157*, 27-33.

- Anderson, B. A.** (2017). Reward processing in the value-driven attention network: Reward signals tracking cue identity and location. *Social, Cognitive, and Affective Neuroscience*, *12*, 461-467.
- Anderson, B. A.**, Kuwabara, H., Wong, D. F., & Courtney, S. M. (2017). Density of available striatal dopamine receptors predicts trait impulsiveness during performance of an attention-demanding task. *Journal of Neurophysiology*, *118*, 64-68.
- Anderson, B. A.**, Chiu, M., DiBartolo, M. M., & Leal, S. L. (2017). On the distinction between value-driven attention and selection history: Evidence from individuals with depressive symptoms. *Psychonomic Bulletin and Review*, *24*, 1636-1642.
- Anderson, B. A.**, & Halpern, M. (2017). On the value-dependence of value-driven attentional capture. *Attention, Perception, and Psychophysics*, *79*, 1001-1011.
- Anderson, B. A.** (2017). On the feature specificity of value-driven attention. *PLOS ONE*, *12*(5), e0177491.
- Anderson, B. A.** (2017). Counterintuitive effects of negative social feedback on attention. *Cognition and Emotion*, *31*, 590-597.
- Xu, K. Z., **Anderson, B. A.**, Emeric, E. E., Sali, A. W., Stuphorn, V., Yantis, S., & Courtney, S. M. (2017). Neural basis of cognitive control over movement inhibition: Human fMRI and primate electrophysiology evidence. *Neuron*, *96*, 1447-1458.

2016

- Anderson, B. A.**, Kuwabara, H., Wong, D. F., Gean, E. G., Rahmim, A., Brasic, J. R., George, N., Frolov, B., Courtney, S. M., & Yantis, S. (2016). The role of dopamine in value-based attentional orienting. *Current Biology*, *26*, 550-555.
- Anderson, B. A.**, Folk, C. L., Garrison, R., & Rogers, L. (2016). Mechanisms of habitual approach: Failure to suppress irrelevant responses evoked by previously reward-associated stimuli. *Journal of Experimental Psychology: General*, *145*, 796-805.
- Anderson, B. A.**, Folk, C. L., & Courtney, S. M. (2016). Neural mechanisms of goal-contingent task disengagement: Response-irrelevant stimuli activate the default mode network. *Cortex*, *81*, 221-230.
- Anderson, B. A.**, Kronemer, S. I., Rilee, J. J., Sacktor, N., & Marvel, C. L. (2016). Reward, attention, and HIV-related risk in HIV+ individuals. *Neurobiology of Disease*, *92*, 157-165.
- Anderson, B. A.** (2016). Social reward shapes attentional biases. *Cognitive Neuroscience*, *7*, 30-36.
- Anderson, B. A.** (2016). Value-driven attentional capture in the auditory domain. *Attention, Perception, and Psychophysics*, *78*, 242-250.

2015

- Moher, J., **Anderson, B. A.**, & Song, J. -H. (2015). Dissociable effects of salience on attention and goal-directed action. *Current Biology*, *25*, 2040-2046.

Sali, A. W., **Anderson, B. A.**, & Yantis, S. (2015). Learned states of preparatory attentional control. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, *41*, 1790-1805.

Anderson, B. A. (2015). Value-driven attentional priority is context specific. *Psychonomic Bulletin and Review*, *22*, 750-756.

Anderson, B. A. (2015). Value-driven attentional capture is modulated by spatial context. *Visual Cognition*, *23*, 67-81.

Laurent, P. A., Hall, M. G., **Anderson, B. A.**, & Yantis, S. (2015). Valuable orientations capture attention. *Visual Cognition*, *23*, 133-146.

Harris, A. D., Puts, N. A. J., **Anderson, B. A.**, Yantis, S., Pekar, J., Barker, P. B., & Edden, R. A. E. (2015). Multi-regional investigation of the relationship between functional MRI blood oxygen level dependent (BOLD) activation and GABA concentration. *PLoS ONE*, *10*(2), e0117531.

2014

Anderson, B. A., Leal, S. L., Hall, M. G., Yassa, M. A., & Yantis, S. (2014). The attribution of value-based attentional priority in individuals with depressive symptoms. *Cognitive, Affective, and Behavioral Neuroscience*, *14*, 1221-1227.

Anderson, B. A., Laurent, P. A., & Yantis, S. (2014). Value-driven attentional priority signals in human basal ganglia and visual cortex. *Brain Research*, *1587*, 88-96.

Anderson, B. A. (2014). On the precision of goal-directed attentional selection. *Journal of Experimental Psychology: Human Perception and Performance*, *40*, 1755-1762.

Sali, A. W., **Anderson, B. A.**, & Yantis, S. (2014). The role of reward prediction in the control of attention. *Journal of Experimental Psychology: Human Perception and Performance*, *40*, 1654-1664.

Anderson, B. A., & Folk, C. L. (2014). Conditional automaticity in response selection: Contingent involuntary response inhibition with varied stimulus-response mapping. *Psychological Science*, *25*, 547-554.

2013

Anderson, B. A., Faulkner, M. L., Rilee, J. J., Yantis, S., & Marvel, C. L. (2013). Attentional bias for non-drug reward is magnified in addiction. *Experimental and Clinical Psychopharmacology*, *21*, 499-506.

Sali, A. W., **Anderson, B. A.**, & Yantis, S. (2013). Reinforcement learning modulates the stability of cognitive control settings for object selection. *Frontiers in Integrative Neuroscience*, *7*:95.

Anderson, B. A., & Yantis, S. (2013). Persistence of value-driven attentional capture. *Journal of Experimental Psychology: Human Perception and Performance*, *39*, 6-9.

Anderson, B. A., Laurent, P. A., & Yantis, S. (2013). Reward predictions bias attentional selection. *Frontiers in Human Neuroscience*, *7*:262.

2012

Anderson, B. A., & Folk, C. L. (2012). Contingent involuntary motoric inhibition: The involuntary inhibition of a motor response contingent on top-down goals. *Journal of Experimental Psychology: Human Perception and Performance*, *38*, 1348-1352.

Anderson, B. A., & Yantis, S. (2012). Value-driven attentional and oculomotor capture during goal-directed, unconstrained viewing. *Attention, Perception, and Psychophysics*, *74*, 1644-1653.

Anderson, B. A., Laurent, P. A., & Yantis, S. (2012). Generalization of value-based attentional priority. *Visual Cognition*, *20*, 647-658.

Anderson, B. A., & Folk, C. L. (2012). Dissociating location-specific inhibition and attention shifts: Evidence against the disengagement account of contingent capture. *Attention, Perception, and Psychophysics*, *74*, 1183-1198.

2011

Anderson, B. A., Laurent, P. A., & Yantis, S. (2011). Value-driven attentional capture. *Proceedings of the National Academy of Sciences, USA*, *108*, 10367-10371.

Anderson, B. A., Laurent, P. A., & Yantis, S. (2011). Learned value magnifies salience-based attentional capture. *PLoS ONE*, *6*(11), e27926.

2010

Anderson, B. A., & Folk, C. L. (2010). Variations in the magnitude of attentional capture: Testing a two-process model. *Attention, Perception, and Psychophysics*, *72*, 342-352.

Folk, C. L., & **Anderson, B. A. (2010).** Target uncertainty effects in attentional capture: Color singleton set or multiple attentional control settings? *Psychonomic Bulletin and Review*, *17*, 421-426.

Review papers

Anderson, B. A. (in press). An adaptive view of attentional control. *American Psychologist*.

Anderson, B. A. (2021). Relating value-driven attention to psychopathology. *Current Opinion in Psychology*, *39*, 48-54.

Anderson, B. A. (2019). Neurobiology of value-driven attention. *Current Opinion in Psychology*, *29*, 27-33.

Anderson, B. A. (2018). Controlled information processing, automaticity, and the burden of proof. *Psychonomic Bulletin and Review*, *25*, 1814-1823.

Sali, A. W., **Anderson, B. A.**, & Courtney, S. M. (2018). Information processing biases in the brain: Implications for decision-making and self-governance. *Neuroethics*, *11*, 259-271.

Anderson, B. A. (2017). Going for it: The economics of automaticity in perception and action. *Current Directions in Psychological Science*, *26*, 140-145.

Anderson, B. A. (2016). What is abnormal about addiction-related attentional biases? *Drug and Alcohol Dependence*, *167*, 8-14.

Anderson, B. A. (2016). The attention habit: How reward learning shapes attentional selection. *Annals of the New York Academy of Sciences*, *1369*, 24-39 [Year in Cognitive Neuroscience series].

Anderson, B. A. (2013). A value-driven mechanism of attentional selection. *Journal of Vision, 13*(3):7, 1-16.

Book chapters (reviewed by Editor only)

Anderson, B. A., & Sali, A. W. (2016). The impact of reward on attention: Beyond motivation. In T. S. Braver (Ed.), *Motivation and Cognitive Control*. New York: Psychology Press.

Yantis, S., **Anderson, B. A.,** Wampler, E. K., & Laurent, P. A. (2012). Reward and attentional control in visual search. In M. D. Dodd & J. H. Flowers (Eds.), *Nebraska Symposium on Motivation (Vol. 59), The Influence of Attention, Learning, and Motivation on Visual Search*. Lincoln, NE: University of Nebraska Press.

Commentaries

peer-reviewed

Anderson, B. A. (in press). Time to stop calling it attentional “capture” and embrace a mechanistic understanding of attentional priority. *Visual Cognition*.

not peer-reviewed

Anderson, B. A. (2016). Introduction to the special issue. *Attention, Perception, and Psychophysics, 78*, 1819-1821.

Conference proceedings (peer-reviewed)

Anderson, B. A., Leal, S. L., Hall, M. G., Yassa, M. A., & Yantis, S. (2014). The attribution of value-based attentional priority in individuals with depressive symptoms. *Visual Cognition, 22*, 1014-1017.

Sali, A. W., **Anderson, B. A.,** & Yantis, S. (2012). Reinforcement learning modulates preparatory states of cognitive flexibility. *Visual Cognition, 20*, 1039-1043.

Anderson, B. A., & Folk, C. L. (2010). Variations in the magnitude of attentional capture: Testing a two-process model. *Visual Cognition, 18*, 111-114.

MANUSCRIPTS SUBMITTED OR IN PREPARATION

Kim, A. J., Alambeigi, H., Goddard, T., McDonald, A. D., & **Anderson, B. A.** (in revision). Do threat-related attentional biases toward bicyclists promote or hinder safe driving?

Anderson, B. A., Kim, H., Kim, A. J., Liao, M.-R., Mrkonja, L., Clement, A., & Gregoire, L. (in revision). The past, present, and future of selection history.

Anderson, B. A., & Mrkonja, L. (in revision). Oculomotor feedback rapidly reduces overt attentional capture.

Liao, M.-R., Kim, A. J., & **Anderson, B. A.** (in revision). Neural correlates of value-driven spatial attention.

Kim, A. J., Gregoire, L., & **Anderson, B. A.** (in revision). Value-biased competition in the auditory system of the brain.

Lee, D. S., Kim, A. J., & **Anderson, B. A.** (in revision). The influence of reward history on goal-directed visual search.

Kim, H., Ogden, A., & **Anderson, B. A.** (submitted). Attentional capture by threat is independent of uni- versus multi-modal threat intensity.

*Grindell, J. D., *Liao, M.-R., & **Anderson, B. A.** (submitted). jsPsych solutions for vision sciences. *denotes co-first-authorship

Kim, H., & Anderson, B. A. (in preparation). Fractionating selection history: Dissociable components of experience-driven attention.

SELECTED MEDIA COVERAGE

Reporting of Findings

NY Times, CNN Health, Prevention Magazine, WebMD, TODAY Show, Business Insider, Global News Canada, Psychology Today, Science Daily, Newswise

Quotations

TIME Magazine (vol. 187, issue 13, Cover story)

Your Third Story by Flip Flippen & Chris J. White

Live Interviews

Top of Mind with Julie Rose

MENTORSHIP

Students and Postdocs Mentored

Postdocs

Andrew Clement (2020-)

Laurent Gregoire (2018-)

PhD students

Sojung Youn (2021-)

Niya Yan (2021-)

Ming-Ray Liao (2018-)

Haena (Hannah) Kim (2016-)

Jeesu (Andy) Kim (2017-2021)

Position upon leaving: postdoc with Mara Mather, University of Southern California

Lab Managers

Nusrat (Progga) Jahan (2021-)

Lana Mrkonja (2019-2021)

Position upon leaving: graduate program in clinical psychology, University of Amsterdam

Mark Britton (2017-2019)

Position upon leaving: PhD program in clinical psychology, University of Florida

Post-baccalaureate

James Grindell (2020-2021)

Position upon leaving: developer for ALCAL Industries Inc.

Ming-Ray Liao (2017-2018)

Position upon leaving: PhD program in Cognitive Neuroscience at Texas A&M University (also offers from U Mass Amherst and University of Pittsburgh)

Undergraduate Independent Study Students

Alex Ogden (2021-)

Sangji (David) Lee (2018-)

Dissertation and Master's Thesis Committees

Dissertation Committees (beyond the PhD students above)

Ankita Sahu (Department of Educational Psychology)

Christopher Prickett (Department of Educational Psychology)

Astin Cornwall (Department of Psychological & Brain Sciences)

Zsolt Beda (Department of Psychological & Brain Sciences)

Nafiseh Faghihi (Department of Psychological & Brain Sciences)

Namgyun Kim (Department of Construction Science)

Yana Lokshina (Texas A&M Institute for Neuroscience [TAMIN])

Master's Thesis Committees

Margaret (Margot) Colville (M.S in Special Education)

Tarik LaCour (PhD program in Philosophy, M.A. in Neuroscience)

Mentored Awards

Sojung Youn – Lechner Scholar (TAMU)	2021
Ming-Ray Liao – Elsevier/Vision Research Travel Award (Vision Sciences Society)	2021
Jeesu (Andy) Kim – Graduate Student Research and Presentation Travel Award (TAMU)	2021
Ming-Ray Liao – Psychonomic Society Graduate Conference Award	2020

Jeesu (Andy) Kim – Psychonomic Society Graduate Conference Award	2020
Jeesu (Andy) Kim – Object Perception, Attention, and Memory (OPAM) Conference Award	2020
Ming-Ray Liao – Elsevier/Vision Research Travel Award (Vision Sciences Society)	2020
Ming-Ray Liao – Honorable Mention, NSF Graduate Research Fellowship Program	2020
Ming-Ray Liao – STAR-COG Award (TAMU)	2020
Ming-Ray Liao – 3 rd place, first-year graduate student poster competition (TAMU)	2019
Ming-Ray Liao – Object Perception, Attention, and Memory (OPAM) Conference Travel Award	2019
Jeesu (Andy) Kim – Saul Sells Research Award (TAMU)	2019
Ming-Ray Liao – 2 nd place in oral presentation, student research week (TAMU)	2019
Jeesu (Andy) Kim – 3 rd place in poster competition, TAMU Chapter of SfN Annual Symposium	2018
Haena Kim – Psychonomic Society Graduate Travel Award	2018
Haena Kim – STAR-COG Award (TAMU)	2018
Haena Kim – Object Perception, Attention, and Memory (OPAM) Conference Travel Award	2017
Haena Kim – 3 rd place, first-year graduate student poster competition (TAMU)	2017

CONFERENCE PRESENTATIONS

2021

- Liao, M.-R., Grindell, J., & **Anderson, B. A.** (November). *Imagery and perceptual priming across visual attention*. Poster presented at the Object Perception, Attention, and Memory (OPAM) conference, New Orleans, LA.
- Kim, H., & **Anderson, B. A.** (November). *Primary reward and aversive outcomes have comparable effects on attention*. Poster presented at the annual meeting of the Society for Neuroscience, Chicago, IL.
- Lee, D. S., Kim, A. J., Grindell, J., & **Anderson, B. A.** (November). *Selection history biases the strategic control of attention*. Poster presented at the annual meeting of the Psychonomics Society, New Orleans, LA.
- Clement, A., Gregoire, L., & **Anderson, B. A.** (November). *Semantic generalization of value-based attentional priority is category-specific*. Poster presented at the annual meeting of the Psychonomics Society, New Orleans, LA.
- Kim, H., Ogden, A., Cabrera, A., Bibb, N., & **Anderson, B. A.** (November). *Dissociable influences of gain- and loss-signalling distractors during decision-making*. Paper presented at the annual meeting of the Psychonomics Society, New Orleans, LA.
- Liao, M.-R., Cornwall, A. C., **Anderson, B. A.**, & Worthy, D. A. (November). *To the Moon! The Effects of Sudden Windfall on Value-Based Decision-Making*. Poster presented at the annual meeting of the Psychonomics Society, New Orleans, LA.
- Kim, A. J., Gregoire, L., & **Anderson, B. A.** (November). *Value-biased competition in the auditory system of the brain*. Poster presented at the annual meeting of the Psychonomics Society, New Orleans, LA..

- Kim, N., **Anderson, B. A.**, & Ahn, C. R. (June). *Preventing struck-by hazards: Defying risk-habituation via virtual accident simulation*. Poster presented at the annual meeting of the Transportation Consortium of the South-Central States, Jonesboro, AR [virtual].
- Liao, M.-R., Grindell, J., & **Anderson, B. A.** (May). *Matter over mind: Effects of imagery and perceptual priming on visual attention*. Poster presented at the annual meeting of the Vision Sciences Society, St. Pete Beach, FL [virtual].
- Mrkonja, L., & **Anderson, B. A.** (May). *Oculomotor feedback rapidly reduces attentional capture*. Poster presented at the annual meeting of the Vision Sciences Society, St. Pete Beach, FL [virtual].
- Clement, A., & **Anderson, B. A.** (May). *Learned associations among objects bias attention*. Poster presented at the annual meeting of the Vision Sciences Society, St. Pete Beach, FL [virtual].
- Lee, D. S., Kim, A. J., & **Anderson, B. A.** (May). *The influence of reward history on goal-directed visual search*. Poster presented at the annual meeting of the Vision Sciences Society, St. Pete Beach, FL [virtual].
- Gregoire, L., Kim, A. J., & **Anderson, B. A.** (May). *Semantic generalization of threat-related attentional capture*. Poster presented at the annual meeting of the Vision Sciences Society, St. Pete Beach, FL [virtual].
- Kim, H., Hansen, M., Ogden, A., Deleon, G., & **Anderson, B. A.** (May). *Attentional capture by threat is independent of uni- versus multi-modal threat intensity*. Poster presented at the annual meeting of the Vision Sciences Society, St. Pete Beach, FL [virtual].
- Kim, A. J., Alambeigi, H., Goddard, T., McDonald, A. D., & **Anderson, B. A.** (May). *Linking threat-related attentional biases toward bicyclists to driving behavior*. Poster presented at the annual meeting of the Vision Sciences Society, St. Pete Beach, FL [virtual].

2020

- Liao, M.-R., Britton, M. K., & **Anderson, B. A.** (November). *Motivation dependent effects of selection history*. Poster presented at the Object Perception, Attention, and Memory (OPAM) conference, Austin, TX [virtual].
- Mrkonja, L., Liao, M.-R., & **Anderson, B. A.** (November). *Selection history is relative*. Poster presented at the Object Perception, Attention, and Memory (OPAM) conference, Austin, TX [virtual].
- Grindell, J., Liao, M.-R., & **Anderson, B. A.** (November). *Mind's eye vs. mine eyes: Effects of imagery and perceptual priming on visual search*. Poster presented at the Object Perception, Attention, and Memory (OPAM) conference, Austin, TX [virtual].
- Kim, H., Hansen, M., & **Anderson, B. A.** (November). *Learned suppression reduces attentional capture by stimuli associated with reward and threat*. Poster presented at the Object Perception, Attention, and Memory (OPAM) conference, Austin, TX [virtual].
- Kim, A. J., Alambeigi, H., Goddard, T., McDonald, A. D., & **Anderson, B. A.** (November). *Do threat-related attentional biases toward bicyclists promote or hinder safe driving?* Poster presented at the Object Perception, Attention, and Memory (OPAM) conference, Austin, TX [virtual].
- Anderson, B. A.**, Mrkonja, L., & Liao, M.-R. (November). *Shaping eye movements during naturalistic viewing using aversive conditioning with near-real-time feedback*. Paper presented at the annual meeting of the Psychonomics Society, Austin, TX [virtual].
- Kim, H., Hansen, M., & **Anderson, B. A.** (November). *Learned suppression reduces attentional capture by stimuli associated with reward and threat*. Poster presented at the annual meeting of the Psychonomics Society, Austin, TX [virtual].
- Gregoire, L., Kim, H., Kim, A. J., & **Anderson, B. A.** (November). *Does threat-based attentional capture generalize across context?* Poster presented at the annual meeting of the Psychonomics Society, Austin, TX [virtual].

- Kim, A. J., & **Anderson, B. A.** (November). *Reward learning biases competition in the auditory system*. Poster presented at the annual meeting of the Psychonomics Society, Austin, TX [virtual].
- Liao, M.-R., Britton, M. K., & **Anderson, B. A.** (November). *Selection history is relative*. Poster presented at the annual meeting of the Psychonomics Society, Austin, TX [virtual].
- Kim, H., & **Anderson, B. A.** (June). *Direct comparison of the neural correlates of value- and punishment-driven attentional capture*. Paper presented at the annual meeting of the Vision Sciences Society, St. Pete Beach, FL [virtual].
- Liao, M.-R., Kim, A. J., & **Anderson, B. A.** (June). *Neural correlates of value-driven spatial attention*. Poster presented at the annual meeting of the Vision Sciences Society, St. Pete Beach, FL [virtual].
- Gregoire, L., Kim, H., Kim, A. J., & **Anderson, B. A.** (June). *Threat-modulated attentional priority is context-specific*. Poster presented at the annual meeting of the Vision Sciences Society, St. Pete Beach, FL [virtual].
- Kim, A. J., & **Anderson, B. A.** (June). *Arousal-biased competition explains reduced distraction by reward cues under threat*. Poster presented at the annual meeting of the Vision Sciences Society, St. Pete Beach, FL [virtual].

2019

- Gregoire, L., & **Anderson, B. A.** (November). *Semantic generalization of value-based attentional priority*. Poster presented at the Object Perception, Attention, and Memory (OPAM) conference, Montreal, Canada.
- Liao, M.-R., & **Anderson, B. A.** (November). *Old priorities die hard: Value-driven attentional priority resists devaluation*. Poster presented at the Object Perception, Attention, and Memory (OPAM) conference, Montreal, Canada.
- Kim, A. J., & **Anderson, B. A.** (November). *Arousal-biased competition explains reduced distraction by reward cues under threat*. Poster presented at the Object Perception, Attention, and Memory (OPAM) conference, Montreal, Canada.
- Gregoire, L., Britton, M. K., & **Anderson, B. A.** (November). *Motivated suppression of value- and threat-modulated attentional capture*. Poster presented at the annual meeting of the Psychonomics Society, Montreal, Canada.
- Kim, A. J., Lee, D. S., & **Anderson, B. A.** (November). *Threat improves performance in a goal-directed visual search task*. Poster presented at the annual meeting of the Psychonomics Society, Montreal, Canada.
- Liao, M.-R., Gregoire, L., & **Anderson, B. A.** (November). *The influence of punishment associations on conflict processing in the Stroop Task*. Poster presented at the annual meeting of the Psychonomics Society, Montreal, Canada.
- Goddard, T. B., **Anderson, B. A.**, Kim, A. J., & McDonald, A. (November). *Drivers attitudes and behavior toward bicyclists: Linking driving simulation with implicit bias and survey data*. Paper presented at Annual International Cycling Safety Conference, Brisbane, Australia.
- Anderson, B. A.**, Kim, H., Kim, A. J., Gregoire, L., & Liao, M.-R. (October). *Reward and punishment bias attention through a common underlying mechanism*. Paper presented at the annual meeting of the Association for Research on Memory, Attention, Decision-making, Intelligence, Language, Learning, and Organization (ARMADILLO), San Antonio, TX.
- Anderson, B. A.**, Kim, H., Britton, M. K., & Kim, A. J. (May). *Distinguishing between punishment vs negative reinforcement learning in the control of attention*. Paper presented at the annual meeting of the Vision Sciences Society, St. Pete Beach, FL.
- Liao, M.-R., & **Anderson, B. A.** (May). *Reward learning biases the direction of saccades in visual search*. Poster presented at the annual meeting of the Vision Sciences Society, St. Pete Beach, FL.

Anderson, B. A., Kim, H., & Marvel, C. L. (March). *Relating value-driven attention to addiction*. Paper presented at the annual meeting of the International Convention of Psychological Science, Paris, France.

Kim, A. J., & **Anderson, B. A.** (March). *Threat reduces value-driven but not salience-driven attentional capture*. Poster presented at the annual meeting of the Cognitive Neuroscience Society, San Francisco, CA.

2018

Kim, H., Britton, M. K., & **Anderson, B. A.** (November). *Fractionating selection history: Dissociable components of experience-driven attention*. Paper presented at the annual meeting of the Psychonomic Society, New Orleans, LA.

Kim, H., & **Anderson, B. A.** (November). *Neural mechanisms of reduced inhibitory control following associative reward learning*. Poster presented at the annual meeting of the Psychonomic Society, New Orleans, LA.

Kim, A. J., & **Anderson, B. A.** (November). *Neural correlates of attentional capture driven by social reward*. Paper presented at the Object Perception, Attention, and Memory (OPAM) conference, New Orleans, LA.

Kim, H., Nanavaty, N., Mathur, V. A., & **Anderson, B. A.** (November). *Neural correlates of attentional bias following aversive conditioning: Evidence for valence-independent mechanisms of priority*. Poster presented at the Object Perception, Attention, and Memory (OPAM) conference, New Orleans, LA.

Britton, M. K., & **Anderson, B. A.** (November). *Selection history in context: Evidence for the role of reinforcement learning in biasing attention*. Poster presented at the Object Perception, Attention, and Memory (OPAM) conference, New Orleans, LA.

Morgan, O., Creighton, J. A., Slapik, M. B., **Anderson, B. A.**, & Marvel, C. L. (November). *Neural correlates of value-driven attentional capture in addiction*. Poster presented at the annual meeting of the Society for Neuroscience, San Diego, CA.

Kim, H., Kim, J. A., Britton, M. K., & **Anderson, B. A.** (September). *Mechanisms of selection history in the control of attention*. Paper presented at the annual meeting of the Association for Research on Memory, Attention, Decision-making, Intelligence, Language, Learning, and Organization (ARMADILLO), Houston, TX.

Kim, H., & **Anderson, B. A.** (September). *Neural mechanisms of reduced inhibitory control following associative reward learning*. Poster presented at the annual meeting of the Association for Research on Memory, Attention, Decision-making, Intelligence, Language, Learning, and Organization (ARMADILLO), Houston, TX.

Kim, A. J., & **Anderson, B. A.** (September). *Threat reduces value-driven but not salience-driven attentional capture*. Poster presented at the annual meeting of the Association for Research on Memory, Attention, Decision-making, Intelligence, Language, Learning, and Organization (ARMADILLO), Houston, TX.

Liao, M.-R., & **Anderson, B. A.** (September). *Reward learning biases the direction of saccades in visual search*. Poster presented at the annual meeting of the Association for Research on Memory, Attention, Decision-making, Intelligence, Language, Learning, and Organization (ARMADILLO), Houston, TX.

Kim, H., Nanavaty, N., Mathur, V. A., & **Anderson, B. A.** (May). *Neural mechanisms of attentional bias following aversive conditioning*. Poster presented at the annual meeting of the Vision Sciences Society, St. Pete Beach, FL.

Kim, A. J., & **Anderson, B. A.** (May). *Value-driven attentional capture under threat of shock*. Poster presented at the annual meeting of the Vision Sciences Society, St. Pete Beach, FL.

Gormley, M., Hinault, T., Blacker, K., **Anderson, B. A.**, & Courtney, S. (March). *Distinct influence of value-driven attentional capture when maintaining locations and spatial relations in working memory: An EEG study*. Poster presented at the annual meeting of the Cognitive Neuroscience Society, Boston, MA.

Rosch, K. S., Sali, A. W., **Anderson, B. A.**, Yantis, S., & Mostofsky, S. H. (February). *Reduced value-driven attentional capture among children with ADHD compared to typically developing controls*. Poster presented at the annual meeting of the International Neuropsychological Society, Washington, DC.

2017

Anderson, B. A., & Kim, H. (November). *Mechanisms of value-learning in the guidance of spatial attention*. Paper presented at the annual meeting of the Psychonomic Society, Vancouver, British Columbia, Canada.

Kim, H., & **Anderson, B. A.** (November). *Dissociating the role of selection history and reward history in attentional capture*. Poster presented at the Object Perception, Attention, and Memory (OPAM) conference, Vancouver, British Columbia, Canada.

Kim, H., & **Anderson, B. A.** (November). *Neural mechanisms of attentional capture driven by selection history*. Poster presented at the annual meeting of the Psychonomic Society, Vancouver, British Columbia, Canada.

Anderson, B. A., & Kim, H. (October). *Reward history and the guidance of spatial attention*. Paper presented at the annual meeting of the Association for Research on Memory, Attention, Decision-making, Intelligence, Language, Learning, and Organization (ARMADILLO), College Station, TX.

Kim, H., & **Anderson, B. A.** (October). *Neural mechanisms of attentional capture driven by selection history*. Poster presented at the annual meeting of the Association for Research on Memory, Attention, Decision-making, Intelligence, Language, Learning, and Organization (ARMADILLO), College Station, TX.

Kim, A. J., & **Anderson, B. A.** (October). *Choosing the double-edged sword: Decision-making when reward and punishment learning conflict*. Poster presented at the annual meeting of the Association for Research on Memory, Attention, Decision-making, Intelligence, Language, Learning, and Organization (ARMADILLO), College Station, TX.

Mihelj, E., Rai, L., Sweeney, A., Kheir, A., **Anderson, B. A.**, Whelan, R., Gallagher, L., & Kelly, C. (June). *Investigating reward-related attentional capture in ADHD*. Poster presented at the annual meeting of the Organization for Human Brain Mapping, Vancouver, British Columbia, Canada.

Anderson, B. A., Kuwabara, H., Wong, D. F., Roberts, J., Rahmim, A., Brasic, J. R., & Courtney, S. M. (May). *Learning mechanisms underlying value-driven attention*. Paper presented at the annual meeting of the Vision Sciences Society, St. Pete Beach, FL.

2016

Anderson, B. A. (November). *Integrating cue and value information in the value-driven attention network during associative learning*. Poster presented at the annual meeting of the Psychonomic Society, Boston, MA.

DiBartolo, M. M., **Anderson, B. A.**, & Courtney, S. M. (November). *Template specificity in loss avoidance value-driven attentional capture*. Poster presented at the annual meeting of the Society for Neuroscience, San Diego, CA.

Justus, K. D., **Anderson, B. A.**, & Courtney, S. M. (November). *Individual differences in abstract rule selection*. Poster presented at the annual meeting of the Society for Neuroscience, San Diego, CA.

Tokgozoglul, H. N., Sali, A. W., **Anderson, B. A.**, Yantis, S., & Connor, C. E. (November). *Representation of medial axis configurations in lateral occipital complex*. Poster presented at the annual meeting of the Society for Neuroscience, San Diego, CA.

Marvel, C. L., **Anderson, B. A.**, Mandel, J., & Sacktor, N. (October). Identifying the Neurocognitive Determinants of HIV-Risk Behaviors. Paper presented at the annual meeting of the International Society for NeuroVirology, San Diego, CA.

Anderson, B. A., Kuwabara, H., Wong, D. F., Gean, E. G., Rahmim, A., Brasic, J. R., George, N., Frolov, B., Courtney, S. M., & Yantis, S. (May). *Relating value-driven attentional capture to striatal dopamine: A positron emission tomography study*. Paper presented at the annual meeting of the Vision Sciences Society, St. Pete Beach, FL.

2015

DiBartolo, M. M., **Anderson, B. A.**, & Courtney, S. M. (November). *The role of loss avoidance in value-driven attentional capture*. Poster presented at the annual meeting of the Psychonomic Society, Chicago, IL.

Moher, J., **Anderson, B. A.**, & Song, J. -H. (November). *Measuring distractor interference in goal-directed action on a trial-by-trial basis reveals selective residual inhibition*. Paper presented at the annual meeting of the Psychonomic Society, Chicago, IL.

Xu, K. Z., Sali, A. W., **Anderson, B. A.**, & Courtney, S. M. (October). *fMRI activation of dorsal and ventral right inferior frontal cortex in a context-dependent stop signal task indicates different roles in motor control*. Poster presented at the annual meeting of the Society for Neuroscience, Chicago, IL.

Marvel, C. L., Kronemer, S. I., **Anderson, B. A.**, & Sacktor, N. (June). *Motor signs as predictors of attentional bias for reward in HIV positive individuals*. Paper presented at the annual meeting of the International Society for Behavioural Neuroscience, Mauna Lani, HI.

Marvel, C. L., Kronemer, S. I., **Anderson, B. A.**, Rilee, J. J., & Sacktor, N. (June). *Reward, attention, and HIV-related risk within the context of HIV+ status and drug addiction*. Paper presented at the annual meeting of the International Society for NeuroVirology, San Diego, CA.

Anderson, B. A., Kuwabara, H., Gean, E. G., Rahmim, A., Brasic, J. R., George, N., Frolov, B., Courtney, S. M., Wong, D. F., & Yantis, S. (June). *The role of dopamine in value-based attention as revealed by positron emission tomography*. Poster presented at the annual meeting of the Organization for Human Brain Mapping, Honolulu, HI.

Harris, A. D., Puts, N. A. J., **Anderson, B. A.**, Yantis, S., Pekar, J., Barker, P. B., & Edden, R. A. E. (June). *Examination of the GABA-BOLD relationship in multiple brain regions*. Poster presented at the annual meeting of the International Society for Magnetic Resonance in Medicine, Toronto, Canada.

Anderson, B. A. (May). *Exploring value-driven attention: Evidence for a domain-general mechanism of selection*. Poster presented at the annual meeting of the Vision Sciences Society, St. Pete Beach, FL.

Tokgozoglu, H. N., Sali, A. W., **Anderson, B. A.**, Yantis, S., & Connor, C. E. (May). *Structural, not spectral, representation of shape in human lateral occipital complex*. Poster presented at the annual meeting of the Vision Sciences Society, St. Pete Beach, FL.

2014

Anderson, B. A. (November). *Value-driven attentional capture is modulated by spatial context*. Paper presented at the annual meeting of the Psychonomic Society, Long Beach, CA.

Anderson, B. A., Leal, S. L., Hall, M. G., Yassa, M. A., & Yantis, S. (November). *The attribution of value-based attentional priority in individuals with depressive symptoms*. Paper presented at the annual Object Perception, Attention, and Memory (OPAM) conference, Long Beach, CA.

Folk, C. L., **Anderson, B. A.**, Garrison, R., & Rogers, L. (November). *The effects of reward on contingent response inhibition*. Paper presented at the annual meeting of the Psychonomic Society, Long Beach, CA.

Rogers, L., Garrison, R., **Anderson, B. A.**, & Folk, C. L. (November). *Timecourse and representational basis of contingent response inhibition*. Poster presented at the annual meeting of the Psychonomic Society, Long Beach, CA.

Kronemer, S. I., **Anderson, B. A.**, Rilee, J. J., Sacktor, N., & Marvel, C. L. (November). *The role of impulsivity and working memory on reward-based attentional capture in HIV and addiction*. Poster presented at the annual meeting of the Society for Neuroscience, Washington, DC.

Anderson, B. A., Faulkner, M. L., Rilee, J. J., Yantis, S., & Marvel, C. L. (May). *Attentional bias for non-drug reward is magnified in addiction*. Poster presented at the annual meeting of the Vision Sciences Society, St. Pete Beach, FL.

Sali, A. W., **Anderson, B. A.**, & Yantis, S. (May). *Statistical learning modulates the flexible control of spatial attention*. Poster presented at the annual meeting of the Vision Sciences Society, St. Pete Beach, FL.

2013

Sali, A. W., **Anderson, B. A.**, & Yantis, S. (November). *Statistical regularities modulate the flexibility of attentional control*. Poster presented at the annual meeting of the Psychonomic Society, Toronto, Canada.

Moher, J., **Anderson, B. A.**, & Song, J. -H. (November). *Reward-associated stimuli trigger movement repulsion in goal-directed action*. Poster presented at the annual meeting of the Psychonomic Society, Toronto, Canada.

Anderson, B. A., Faulkner, M. L., Rilee, J. J., Yantis, S., & Marvel, C. L. (October). *Attentional bias for non-drug reward is magnified in addiction*. Poster accepted at the annual National Institutes of Health National Graduate Student Research Conference, Bethesda, MD [conference canceled].

Anderson, B. A., Laurent, P. A., & Yantis, S. (May). *Neural mechanisms of value-driven attentional capture*. Poster presented at the annual meeting of the Vision Sciences Society, Naples, FL.

Sali, A. W., **Anderson, B. A.**, & Yantis, S. (May). *The role of predictable and unpredictable reward in the control of attention*. Poster presented at the annual meeting of the Vision Sciences Society, Naples, FL.

Folk, C. L., & **Anderson, B. A.** (May). *Involuntary inhibition of motor responses contingent on top-down goals*. Poster presented at the annual meeting of the Vision Sciences Society, Naples, FL.

2012

Anderson, B. A., & Yantis, S. (November). *Persistent changes in attentional bias following brief reward learning*. Poster presented at the annual meeting of the Psychonomic Society, Minneapolis, MN.

Sali, A. W., **Anderson, B. A.**, & Yantis, S. (November). *Reinforcement learning modulates preparatory states of cognitive flexibility*. Paper presented at the annual Object Perception, Attention, and Memory (OPAM) conference, Minneapolis, MN.

Anderson, B. A., & Yantis, S. (May). *Value-driven oculomotor capture*. Poster presented at the annual meeting of the Vision Sciences Society, Naples, FL.

Laurent, P. A., **Anderson, B. A.**, Hall, M. G., & Yantis, S. (May). *Value-driven attentional capture by rewarded orientations*. Poster presented at the annual meeting of the Vision Sciences Society, Naples, FL.

2011

Yantis, S., **Anderson, B. A.**, & Laurent, P. A. (April). *Reward, distraction, and attentional control*. Paper presented at the annual meeting of the Society of Experimental Psychologists, Seattle, WA.

Anderson, B. A., Laurent, P. A., & Yantis, S. (November). *On the robustness of value-driven attentional capture*. Poster presented at the annual meeting of the Psychonomic Society, Seattle, WA.

Anderson, B. A., & Folk, C. L. (November). *Negative cuing effects are NOT a signature of attentional capture or disengagement*. Poster presented at the annual meeting of the Psychonomic Society, Seattle, WA.

2010

Anderson, B. A., Laurent, P. A., & Yantis, S. (November). *Reward-driven attentional capture*. Paper presented at the annual meeting of the Psychonomic Society, St. Louis, MO.

2009

Anderson, B. A., & Folk, C. L. (November). *Variations in the magnitude of attentional capture: Testing a two-process model*. Paper presented at the annual Object Perception, Attention, and Memory (OPAM) conference, Boston, MA.

2008

Folk, C. L., & **Anderson, B. A.** (November). *Target uncertainty and attentional capture: Singleton detection mode or multiple top-down control settings?* Poster presented at the annual meeting of the Psychonomic Society, Chicago, IL.

INVITED TALKS AND SYMPOSIA

Anderson, B. A. (August, 2021). *Reconceptualizing the Control of Attention*. Emerging Leaders in Psychological Science Highlight Cutting-Edge Research and Career Reflections Symposium, Annual Meeting of the American Psychological Association.

Anderson, B. A., Gregoire, L., Kim, H., Kim, A. J., & Liao, M.-R. (November, 2020). *Overcoming Value-Driven Attentional Capture*. Invited Address, Annual Meeting of the Psychonomic Society.

Anderson, B. A. (October, 2020). *Fractionating Selection History: How Different Learning Experiences Contribute to the Control of Attention*. Rice University.

Anderson, B. A. (October, 2020). *Fractionating Selection History: How Different Learning Experiences Contribute to the Control of Attention*. Vrije University, Amsterdam.

Anderson, B. A. (March, 2020). *Fractionating Selection History: How Different Learning Experiences Contribute to the Control of Attention*. Brain, Behavior, and Cognition Speaker Series, Washington University in St. Louis.

Anderson, B. A. (May, 2017). *Decomposing the Mechanisms and Processes Underlying Value-Driven Attention*. Implicit Guidance of Attention: Developing Theoretical Models Symposium, St. Pete Beach, FL.

Anderson, B. A. (February, 2017). *How Reward Biases Information Processing*. Department of Economics, Texas A&M University.

Anderson, B. A. (June, 2015). *Linking Reward, Attention, and Psychopathology*. Laureate Institute for Brain Research.

Anderson, B. A. (December, 2014). *Reward Learning and the Value-Driven Control of Attention*. University of Saint Louis.

Anderson, B. A. (November, 2014). *Reward Learning and the Value-Driven Control of Attention*. Texas A&M University.

Anderson, B. A. (October, 2014). *Reward Learning and the Value-Driven Control of Attention*. Boston College.

Anderson, B. A. (February, 2014). *Reward Learning and the Value-Driven Control of Attention*. National Institute on Drug Abuse, Baltimore, MD.

Anderson, B. A. (February, 2014). *Reward Learning and the Value-Driven Control of Attention*. University of Virginia.

Anderson, B. A. (January, 2014). *Reward Learning and the Value-Driven Control of Attention*. Florida State University.

Anderson, B. A. (December, 2013). *Reward Learning and the Value-Driven Control of Attention*. University of Nebraska – Lincoln.

Anderson, B. A. (December, 2013). *Reward Learning and the Value-Driven Control of Attention*. National Institutes of Health, Bethesda, MD.

Anderson, B. A. (January, 2013). *Reward Learning and the Selection of Visual Stimuli*. Clinical Neuroscience Seminar Series, Johns Hopkins University School of Medicine, Baltimore, MD.

Anderson, B. A., & Yantis, S. (July, 2012). *A Value-Driven Mechanism of Attentional Selection*. Third international symposium on visual search and selective attention, Munich, Germany.

ACADEMIC SERVICE (TO THE FIELD)

Ad Hoc Reviewing

Psychological Science

Journal of Neuroscience

Biological Psychology

Neuropsychologia

Behavioural Brain Research

Journal of Neurophysiology

Cognition

JEP: General

Psychological Bulletin

Current Opinion in Psychology

Current Biology

Science Advances

Scientific Reports

PLOS ONE

Psychonomic Bulletin & Review

Cerebral Cortex

NeuroImage

Brain & Cognition

Journal of Vision

Visual Cognition

Vision Research

Emotion

Psychophysiology

Cognitive Neuroscience

Cognition & Emotion

Psychological Research

Acta Psychologica

Neuropsychopharmacology

Memory & Cognition

Learning & Memory

PLOS Biology

Journal of Neurology, Neurosurgery, & Psychiatry

Drug & Alcohol Dependence

Experimental and Clinical Psychopharmacology

Psychology of Addictive Behaviors

Addictive Behaviors

Journal of Behavioral Addictions

Appetite

Schizophrenia Bulletin

Cognitive, Affective, & Behavioral Neuroscience

Social, Cognitive, & Affective Neuroscience

Human Brain Mapping

Elsevier Collections (edited book)

Quarterly Journal of Experimental Psychology

JEP: Human Perception & Performance

JEP: Learning, Memory, & Cognition

Attention, Perception, & Psychophysics

Frontiers in Human Neuroscience

Collabra: Psychology

Animal Cognition

Child Development

Experimental Brain Research

Journal of Memory and Language

Canadian Journal of Experimental Psychology

Behavior Research Methods

Journal of Social and Personal Relationships

British Journal of Psychology

IEEE Transactions on Affective Computing

Editorial Positions

Associate Editor

Attention, Perception, & Psychophysics (2017-2020)

Consulting Editor

Cognitive, Affective, & Behavioral Neuroscience (2021-)

Psychonomic Bulletin & Review (2020-)

Attention, Perception, & Psychophysics (2015-2017)

Guest Editor

Mechanisms of Attentional Control: A Special Issue in Honor of the Contributions of Steven Yantis. (2016). Brian A. Anderson, Cathleen M. Moore, John T. Serences & Sarah Shomstein (Eds.). *Attention, Perception, and Psychophysics*, 78(7), 1819-2279.

Reward Guides Visual Attention: Selection, Learning and Motivation. (2015). Brian A. Anderson, Jan Theeuwes, & Leonardo Chelazzi (Eds.). *Visual Cognition*, 23(1-2), 1-335.

Grant, Award, and Scientific Program Review Committees

- 2020 *Panel Member*, Cognition and Perception [CP] study section (NIH)
- 2020 *Ad hoc grant reviewer*, Israel Science Foundation
- 2018 *Ad hoc grant reviewer*, European Research Council
- 2018 *Ad hoc grant reviewer*, Research Growth Initiative (University of Wisconsin-Milwaukee)
- 2017 *Program reviewer*, Annual Meeting of the Society for Philosophy and Psychology
- 2016 *Review committee*, Graduate Student Travel Awards (Psychonomic Society)
- 2016 *Ad hoc proposal reviewer*, PhD Fellowship Programme (University of Vienna)
- 2015 *Review committee*, Graduate Student Travel Awards (Psychonomic Society)
- 2015 *Ad hoc grant reviewer*, Biotechnology and Biological Sciences Research Council (UK)

PROFESSIONAL MEMBERSHIPS

Psychonomic Society (Fellow)

Vision Sciences Society

Society for Neuroscience

TEACHING EXPERIENCE

Texas A&M University

- Instructor: *Sensation and Perception (PSYC/NRSC 320)*
(Spring 2017, 2018; Fall 2017, 2018, 2019, 2020, 2021)
Cognitive Neuroscience of Attention (PSYC 689)
(Spring 2019)
Professional Development Seminar (PSYC 689)
(Summer 2021)
- Co-instructor: *Principles of Neuroscience II (NRSC 602)--lecture on Sensation and Perception*
(Spring 2017, 2018, 2019, 2020)
Neuroscience Overview (NRSC 101)--lecture on Sensation and Perception
(Spring 2021; Fall 2020)

Johns Hopkins University

- Instructor: *Laboratory in the Analysis of Psychological Data*
- Co-instructor: *Advanced Statistical Methods--section on ANOVA*
- Co-organizer: *Functional Neuroimaging Seminar*

Villanova University

- Instructor: *Laboratory in Cognition*

DEPARTMENT SERVICE

- 2020- Diversity and Inclusion Committee
- 2019- Director of Human Imaging
- Fall 2017 Cognoscenti organizer (CCN area)
- 2017-2018 Brain Science Initiative Task Force
- 2016-2020 Graduate Studies and Admissions Committee (CCN representative)
- 2015-2016 Affective Sciences Hiring Committee

COLLEGE & UNIVERSITY SERVICE

- 2020-pres President's Excellence Fund Steering Committee
- 2020-pres Undergraduate Program Committee, TAMIN
- Spring 2020 Keynote Speaker: Liberal Arts Advisory and Development Council Meeting
- Spring 2020 X-grant review panel
- Spring 2019 X-grant review panel

2018-2020	Graduate Program Committee, TAMIN
Fall 2018	PESCA grant review panel
Spring 2018	Panelist: Liberal Arts Advisory and Development Council Meeting
Fall 2017	PESCA grant review panel
Spring 2017	Table host: Liberal Arts Advisory and Development Council Meeting