

Brian A. Anderson
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ACADEMIC APPOINTMENTS

Texas A&M University

Professor	2023-
Associate Professor	2020-2023
Assistant Professor	2016-2020

Johns Hopkins University

Postdoctoral Scientist	2014-2016
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ADMINISTRATIVE APPOINTMENTS

Director of the Human Imaging Facility (HIF)	2022-
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Texas A&M University

Director of Human Imaging	2019-2022
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Department of Psychological & Brain Sciences, Texas A&M University

EDUCATION

Ph.D. in Psychological and Brain Sciences	2014
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Johns Hopkins University

Thesis Advisor: Dr. Steven Yantis

M.S. in Psychology	2009
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Villanova University

Thesis Advisor: Dr. Charles Folk

B.A. in Social Science (summa cum laude with honors)	2006
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University of Maine at Augusta

AWARDS AND HONORS (selected)

Charles Puryear Professorship in Liberal Arts	2024
Elsevier / Vision Sciences Society Early Career Award	2023
Named Senior Rothrock Fellow (College of Arts and Sciences, Texas A&M University)	2023
Elected Fellow of the Association for Psychological Science	2023
Janet Taylor Spence Award for Transformative Early Career Contributions (Association for Psychological Science)	2022
Distinguished Scientific Award for 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
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
Distinguished Social Science Student (University of Maine at Augusta)	2007

SOURCES OF FUNDING

Pending

2024-2029 NIH *Components of selection history and the control of attention* (competing renewal). Role: PI, 3.5 months. Total direct costs: \$1,887,532.

Active

2023-2026 NIH R01ES032149: *Building Capacity to Study Mixed Metal-Induced Neurotoxicity in Rural Bangladeshi Children*. Role: subaward PI, 0.1 months (Project PI: Khalid Khan). Total direct costs: \$12,276 to Texas A&M (subaward).

2023-2026 NSF: *Collaborative Research: Enhancing Vigilance Toward Safety Hazards Using a Self-directed Learning Environment with AI and Augmented Reality*. Role: MPI, 1.0 months (contact PI: Namgyun Kim). Total direct costs: \$582,897 (Texas A&M portion: \$120,806).

2022-2024 (no cost extension) NIH R21-DA052626: *Aversive Information Processing Biases in Nicotine Dependence*. Role: PI, 3.5 months. Total direct costs: \$275,000.

- **2023-2024** Research Supplement to Promote Diversity in Health-Related Research: *The Role of Attentional Bias, Counterfactual Thinking, and Protective Behavioral*

- Strategies in ENDS Users*. Role: PI (candidate: Kianna Arthur). Total direct costs: \$43,784.
- 2020-2024** (no cost extension) 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: \$522,258.
- 2019-2024** (no cost extension) NIH R01-DA046410: *Components of selection history and the control of attention*. Role: PI, 3.5 months. Total direct costs: \$1,187,500.
- **2022-2023** Research Supplement to Promote Diversity in Health-Related Research: *The Control of Attention and Learning from Physical Effort*. Role: PI (candidate: Molly McKinney). Total direct costs: \$89,160.

Completed

- 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.
- 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).
- 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 = 6852, h-index = 40, i10-index = 84

Original research articles

in press

- Gregoire, L., Dubravac, M., Moore, K., Kim, N., & **Anderson, B. A.** (in press). Observational learning of threat-related attentional bias. *Cognition and Emotion*.
- Clement, A., & **Anderson, B. A.** (in press). Statistically learned associations among objects bias attention. *Attention, Perception, and Psychophysics*.
- Anderson, B. A.** (in press). Filtering distractors is costly. *Cognition and Emotion*.
- Liesefeld, H. R., Lamy, D., Gaspelin, N., Geng, J., Kerzel, D., Leber, A., Schall, J. D., Allen, H., **Anderson, B. A.**, Busch, N., Boettcher, S., Carlisle, N., Colonius, H., Draschkow, D., Egeth, H., Müller, H. J., Röer, J. P., Schubö, A., Slagter, H., Theeuwes, J., & Wolfe, J. (in press). Terms of debate: Consensus definitions to guide the scientific discourse on visual distraction. *Attention, Perception, and Psychophysics*.
- Kim, N., Gregoire, L., Razavi, M., Yan, N., Lee, D. S., Lewis, P., Ahn, C. R., & **Anderson, B. A.** (in press). Protocols for evaluating the effectiveness of virtual accident experience in enhancing sensory responses to real-world warning. *STAR Protocols*.

2024

- Lee, D. S.*, Clement, A. *, & **Anderson, B. A.** (2024). When detecting a salient target makes search more effortful. *Journal of Experimental Psychology: General*, *153*, 590-607.
*denotes co-first-authorship
- Yan, N., & **Anderson, B. A.** (2024). Attribute amnesia as a product of experience-dependent encoding. *Psychonomic Bulletin and Review*, *31*, 772-780.
- Kim, A. J.*, Lee, D. S.*, Grindell, J. D., & **Anderson, B. A.** (2024). Selection history and the strategic control of attention. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, *50*, 204-211. *denotes co-first-authorship
- Gregoire, L., & **Anderson, B. A.** (2024). Instructional learning of threat-related attentional capture. *Emotion*, *24*, 531-537.
- Anderson, B. A.** (2024). An examination of the motivation to manage distraction. *Cognition*, *250*, 105862.

2023

- Anderson, B. A.**, & Lee, D. S. (2023). Visual search as effortful work. *Journal of Experimental Psychology: General*, *152*, 1580-1597.
- Lee, D. S., & **Anderson, B. A.** (2023). Selection history contributes to suboptimal attention strategies. *Psychonomic Bulletin and Review*, *30*, 1866-1873.
- Clement, A., & **Anderson, B. A.** (2023). Statistical learning facilitates the strategic use of attentional control. *Cognition*, *239*, 105536.
- Clement, A., Gregoire, L., & **Anderson, B. A.** (2023). Generalization of value-based attentional priority is category-specific. *Quarterly Journal of Experimental Psychology*, *76*, 2401-2409.

- Liao, M.-R., Kim, A. J., & **Anderson, B. A.** (2023). Neural correlates of value-driven spatial orienting. *Psychophysiology*, *60*, e14321.
- Liao, M.-R., Dillard, M. H., Hour, J. L., Barnett, L. A., Whitten, J. S., Valles, A. C., **Anderson, B. A.***, & Yorzinski, J. L.* (2023). Reward history modulates visual attention in an avian model. *Animal Cognition*, *26*, 1685-1695. *denotes co-senior-authorship (equal-contribution)
- Liao, M.-R., Grindell, J. D., & **Anderson, B. A.** (2023). A comparison of mental imagery and perceptual cueing across domains of attention. *Attention, Perception, and Psychophysics*, *85*, 1834-1845.
- Kim, H., Ogden, A., & **Anderson, B. A.** (2023). Statistical learning of distractor shape modulates attentional capture. *Vision Research*, *202*, 108155.
- Kim, H., & **Anderson, B. A.** (2023). Primary rewards and aversive outcomes have comparable effects on attentional bias. *Behavioral Neuroscience*, *137*, 89-94.
- Kim, H., & **Anderson, B. A.** (2023). On the relationship between value- and threat-driven attentional capture and approach-avoidance biases. *Brain Sciences*, *13*(2), 158.
- Ogden, A., Kim, H., & **Anderson, B. A.** (2023). Combined influence of valence and statistical learning on the control of attention II: Evidence from within-domain additivity. *Attention, Perception, and Psychophysics*, *85*, 277-283.
- Yan, N., Grindell, J. D., & **Anderson, B. A.** (2023). Encoding history enhances working memory encoding: Evidence from attribute amnesia. *Journal of Experimental Psychology: Human Perception and Performance*, *49*, 589-599.
- Kim, N.*, Gregoire, L.*, Razavi, M., Yan, N., Ahn, C. R., & **Anderson, B. A.** (2023). Virtual accident curbs risk habituation in construction workers by restoring sensory responses to warning signals. *iScience*, *26*, 105827. *denotes co-first-authorship
- Kim, N., Yan, N., Gregoire, L., **Anderson, B. A.**, & Ahn, C. R. (2023). Road construction workers' boredom proneness, habituation to warning alarms, and accident proneness: A virtual reality experiment. *Journal of Construction Engineering and Management*, *149*, 04022175.
- Chen, Y., Chen, S., Zhang, X., Zhang, S., Jia, K., **Anderson, B. A.**, & Gong, M. (2023). Reward history modulates attention based on feature relationship. *Journal of Experimental Psychology: General*, *152*, 1937-1950.

2022

- Kim, A. J., & **Anderson, B. A.** (2022). Systemic effects of selection history on learned ignoring. *Psychonomic Bulletin and Review*, *29*, 1347-1354.
- Gregoire, L., Britton, M. K., & **Anderson, B. A.** (2022). Motivated suppression of value- and threat-modulated attentional capture. *Emotion*, *22*, 780-794.
- Gregoire, L., Mrkonja, L., & **Anderson, B. A.** (2022). Cross-modal generalization of value-based attentional priority. *Attention, Perception, and Psychophysics*, *84*, 2423-2431.
- Lee, D. S., Kim, A. J., & **Anderson, B. A.** (2022). The influence of reward history on goal-directed visual search. *Attention, Perception, and Psychophysics*, *84*, 325-331.

Anderson, B. A., Liao, M.-R., & Gregoire, L. (2022). Pavlovian learning in the selection history-dependent control of overt spatial attention. *Journal of Experimental Psychology: Human Perception and Performance*, *48*, 783-789.

Anderson, B. A., & Mrkonja, L. (2022). This is a test: Oculomotor capture when the experiment keeps score. *Attention, Perception, and Psychophysics*, *84*, 2115-2126.

2021

Kim, H., Nanavaty, N., Ahmed, H., Mathur, V. A., & **Anderson, B. A.** (2021). Motivational salience guides attention to valuable and threatening stimuli: Evidence from behavior and fMRI. *Journal of Cognitive Neuroscience*, *33*, 2440-2460.

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, H., & **Anderson, B. A.** (2021). How does the attention system learn from aversive outcomes? *Emotion*, *21*, 898-903.

Kim, A. J., Gregoire, L., & **Anderson, B. A.** (2021). Value-biased competition in the auditory system of the brain. *Journal of Cognitive Neuroscience*, *34*, 180-191.

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.

Kim, A. J., Lee, D. S., & **Anderson, B. A.** (2021). Previously reward-associated sounds interfere with goal-directed auditory processing. *Quarterly Journal of Experimental Psychology*, *74*, 1257-1263.

Kim, A. J., & **Anderson, B. A.** (2021). How does threat modulate the motivational effects of reward on attention? *Experimental Psychology*, *68*, 165-172.

Kim, A. J., Alambeigi, H., Goddard, T., McDonald, A. D., & **Anderson, B. A.** (2021). Bicyclist-evoked arousal and greater attention to bicyclists independently promote safer driving. *Cognitive Research: Principles and Implications*, *6:66*, 1-13.

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

Gregoire, L., Kim, H., & **Anderson, B. A.** (2021). Punishment-modulated attentional capture is context specific. *Motivation Science*, *7*, 165-175.

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

Anderson, B. A., & Mrkonja, L. (2021). Oculomotor feedback rapidly reduces overt attentional capture. *Cognition*, *217*, 104917.

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.

Mikhael, S., Watson, P., **Anderson, B. A.**, & Le Pelley, M. E. (2021). You do it to yourself: Attentional capture by threat-signaling stimuli persists even when entirely counterproductive. *Emotion*, *21*, 1691-1698.

Kim, N., **Anderson, B. A.**, & Ahn, C. R. (2021). Reducing risk habituation to struck-by hazards in a road construction environment using virtual reality behavioral intervention. *Journal of Construction Engineering and Management*, *147*, 04021157.

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). Rethinking distraction. *Visual Cognition*.

Anderson, B. A., Kim, N., Gregoire, L., Yan, N., & Ahn, C. R. (2024). Attention failures cause workplace accidents: Why workers ignore hazards and what to do about it. *Policy Insights from the Behavioral and Brain Sciences*, *11*, 27-35.

Anderson, B. A. (2024). Trichotomy revisited: A monolithic theory of attentional control. *Vision Research*, *217*, 108366.

Anderson, B. A. (2021). An adaptive view of attentional control. *American Psychologist*, *76*, 1410-1422.

Anderson, B. A., Kim, H., Kim, A. J., Liao, M.-R., Mrkonja, L., Clement, A., & Gregoire, L. (2021). The past, present, and future of selection history. *Neuroscience and Biobehavioral Reviews*, *130*, 326-350.

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

- 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.** (2021). Time to stop calling it attentional “capture” and embrace a mechanistic understanding of attentional priority. *Visual Cognition*, 29, 537-540.

not peer-reviewed

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

Peer-reviewed conference proceedings

- 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, H., & **Anderson, B. A.** (accepted in principle). Fractionating selection history: Dissociable components of experience-driven attention.
- Kim, A. J., Gregoire, L., & **Anderson, B. A.** (in revision). Reliably measuring learning-dependent distractor suppression with eye tracking.
- Lee, D. S., Clement, A. *, Gregoire, L. *, & **Anderson, B. A.** (in revision). Aversive conditioning, anxiety, and the strategic control of attention. *denotes equal-contribution
- Youn, S., & **Anderson, B. A.** (in revision). Relating distractor suppression to problematic drinking behavior.
- Yan, N., & **Anderson, B. A.** (submitted). The role of task-relevance in the learning of value-based attentional priority.

Tan, Q., Jia, O., **Anderson, B. A.**, Jia, K., & Gong, M. (submitted). Reward history alters priority map based on spatial relationship rather than absolute location.

Anderson, B. A., Lee, D. S., McKinney, M. R., & Clement, A. (submitted). Getting a grip on visual search: Relating effort exertion to the control of attention.

Clement, A., Pratt, J., & **Anderson, B. A.** (in preparation). Attentional avoidance of cognitive and physical effort.

Yan, N., & **Anderson, B. A.** (in preparation). Rewarded features are selectively encoded into working memory.

Anderson, B. A., Lee, D. S., Yan, N., McKinney, M. R., & Clement, A. (in preparation). The attention habit II: How selection history shapes the strategic control of attention.

Kim, H., & **Anderson, B. A.** (in preparation). Dissociable influence of the economic value and valence of task-irrelevant stimuli on decision-making.

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, KBTX Morning News

MENTORSHIP

Students and Postdocs Mentored

Postdocs

Brad Stilwell (2023-)

Laurent Gregoire (2018-)

Andrew Clement (2020-2023)

Position upon leaving: Assistant Professor at Millsaps College

PhD students

Molly McKinney (2024-)

Justin Frandsen (2023-)

Sojung Youn (2021-)

Niya Yan (2021-)

Ming-Ray Liao (2018-2023)

Position upon leaving: statistician, United States Census Bureau

Haena (Hannah) Kim (2016-2022)

Position upon leaving: postdoc with Yuan Chang Leong, University of Chicago

Namgyun Kim (2019-2022) co-chaired with Dr. Changbum Ryan Ahn

Position upon leaving: Assistant Professor, University of Dayton

Jeesu (Andy) Kim (2017-2021)

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

Lab Managers

Nusrat (Progga) Jahan (2021-2024)

Position upon leaving: PhD program in cognitive psychology, Ohio State University

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

Visiting Scholars

Francesca Canturi, PhD candidate at the University of Parma (2023-2024)

Post-baccalaureate

Molly McKinney (2022-2024)

Position upon leaving: PhD program at Texas A&M University

James Grindell (2020-2021)

Position upon leaving: developer for ALCAL Industries Inc.

Ming-Ray Liao (2017-2018)

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

Masters Students

Sangji (David) Lee (2022-2024)

Position upon leaving: Research coordinator, Baylor College of Medicine

Undergraduate Independent Study Students

Emily Glynn (2023-2024)

Jenna Glotfelty (2023-2024)

Position upon leaving: Masters program in clinical psychology, College of William & Mary

Jonathan Reagan (2022-2024)

Position upon leaving: Teach for America

Felicity Woodson (2022-2024)

Position upon leaving: Pharmacy technician, HEB

Arushi Sadam (2022-2023)

Position upon leaving: transfer to the University of Texas – Austin

Haris Khan (2022-2023)

Position upon leaving: supply chain analyst, 2 Z Technology Co.

Natalie Johnson (2023)

Position upon leaving: MD/MPH program, Long School of Health, UT San Antonio

Rebecca Warren (2022-2023)

Position upon leaving: NIH Postbac Program at the University of Notre Dame

Alex Ogden (2021-2022)

Position upon leaving: Master's of Finance program, University of Houston

Sangji (David) Lee (2018-2022)

Position upon leaving: MPH program at Texas A&M University

Dissertation and Master's Thesis Committees

Dissertation Committees (beyond the PhD students above)

Ivan Herrejon (Department of Psychological & Brain Sciences)

Abdullahi Ibrahim (Department of Construction Science)

Dun-Ya Hu (Department of Psychological & Brain Sciences)

Yu-Po Cheng (Texas A&M Institute for Neuroscience [TAMIN])

Juan Balcazar (Department of Psychological & Brain Sciences)

Kianna Arthur (Department of Psychological & Brain Sciences)

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

Dong-Yu Yang (Department of Psychological & Brain Sciences)

Cagri Arisoy (Department of Computer Science)

Elizabeth Bauer (Department of Psychological & Brain Sciences)

Nafiseh Faghihi (Department of Psychological & Brain Sciences)

Jesus Lopez (Department of Psychological & Brain Sciences)

Zsolt Beda (Department of Psychological & Brain Sciences)

Astin Cornwall (Department of Psychological & Brain Sciences)

Christopher Prickett (Department of Educational Psychology)

Ankita Sahu (Department of Educational Psychology)

Master's Thesis Committees

Shivani Mansharamani (Department of Psychological & Brain Sciences)

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

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

Mentored Awards

Molly McKinney – Avilés-Johnson Graduate Fellowship (TAMU)	2024
Andrew Clement – Postdoc Travel Grant, College of Arts and Sciences (TAMU)	2023
Namgyun Kim – Distinguished Dissertation Award (TAMU)	2023
Niya Yan – Elsevier/Vision Research Travel Award (Vision Sciences Society)	2023
Molly McKinney – National Eye Institute Early Career Scientist Travel Grant (Vision Sciences Society)	2023
Sojung Youn – 2 nd place, first-year graduate student poster competition (TAMU)	2022
Namgyun Kim, Niya Yan, & Moein Razavi – Vice President for Research Excellence in Research Award (TAMU)	2022
David Lee – Vision Sciences Society Travel Award	2022
Andrew Clement – National Eye Institute Early Career Scientist Travel Grant (Vision Sciences Society)	2022
Namgyun Kim – Winner, TAMU <i>3-minute Thesis</i> competition (PhD division)	2021
Niya Yan – 2 nd place, first-year graduate student poster competition (TAMU)	2021
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**2024**

- Stilwell, B. T., & **Anderson, B. A.** (November). *Stronger suppression of more salient distractors makes search easier*. Paper presented at the annual meeting of the Psychonomic Society, New York, NY.
- McKinney, M. R., & **Anderson, B. A.** (November). *The strategic control of attention across single- and dual-target search*. Poster presented at the annual meeting of the Psychonomic Society, New York, NY.
- Frandsen, J., Canturi, F., Ferrari, V., & **Anderson, B. A.** (November). *Relating aversive conditioning and emotional valence in the control of attention*. Poster presented at the annual meeting of the Psychonomic Society, New York, NY.
- Youn, S., & **Anderson, B. A.** (November). *Feature-specific learning in distractor suppression: A replication and extension*. Poster presented at the annual meeting of the Psychonomic Society, New York, NY.
- Yan, N., Jiang, R., Ochoa, L., & **Anderson, B. A.** (November). *Conditioned features are selectively encoded into working memory*. Poster presented at the annual meeting of the Psychonomic Society, New York, NY.
- Clement, A., Reagan, J., & **Anderson, B. A.** (November). *Explicit cues produce transient benefits in attentional control strategy*. Poster presented at the annual meeting of the Psychonomic Society, New York, NY.
- Glotfelty, J. E., Liao, M.-R., Stilwell, B. T., & **Anderson, B. A.** (May). *Impact of static physical arousal on attentional networks*. Poster presented at the annual meeting of the Vision Sciences Society, St. Pete Beach, FL.
- Gregoire, L., Lee, D. S., & **Anderson, B. A.** (May). *Do physical effort and electrical stimulations similarly affect attentional capture?* Poster presented at the annual meeting of the Vision Sciences Society, St. Pete Beach, FL.
- Lee, D. S., Clement, A., & **Anderson, B. A.** (May). *Exogenous cues make search less effortful*. Poster presented at the annual meeting of the Vision Sciences Society, St. Pete Beach, FL.
- Stilwell, B. T., & **Anderson, B. A.** (May). *Learning to suppress color singletons via feature-based regularities*. Poster presented at the annual meeting of the Vision Sciences Society, St. Pete Beach, FL.
- Frandsen, J., & **Anderson, B. A.** (May). *The role of statistical learning in attentional guidance during search through naturalistic scenes*. Poster presented at the annual meeting of the Vision Sciences Society, St. Pete Beach, FL.
- McKinney, M. R., Lee, D. S., & **Anderson, B. A.** (May). *Does anticipated effort modulate attentional biases for aversively conditioned stimuli?* Poster presented at the annual meeting of the Vision Sciences Society, St. Pete Beach, FL.
- Youn, S., & **Anderson, B. A.** (May). *Reduced attentional capture following more variable rewards*. Poster presented at the annual meeting of the Vision Sciences Society, St. Pete Beach, FL.
- Yan, N., & **Anderson, B. A.** (May). *Statistical regularities do not facilitate encoding but induce biased guessing in the attribute amnesia task*. Poster presented at the annual meeting of the Vision Sciences Society, St. Pete Beach, FL.

2023

- Lee, D. S., Clement, A., & **Anderson, B. A.** (November). *When detecting a salient target makes search more effortful*. Paper presented at the annual meeting of the Object Perception, Attention, and Memory (OPAM) conference, San Francisco, CA.
- Yan, N., & **Anderson, B. A.** (November). *An exploration of the relationship between reward and working memory encoding*. Poster presented at the annual meeting of the Object Perception, Attention, and Memory (OPAM) conference, San Francisco, CA.

- Youn, S., & **Anderson, B. A.** (November). *Mechanisms of cognitive control and distractor suppression in heavy drinkers*. Poster presented at the annual meeting of the Object Perception, Attention, and Memory (OPAM) conference, San Francisco, CA.
- Jahan, N., Gregoire, L., Bailon, E., Spencer, J., & **Anderson, B. A.** (November). *Risk preferences in attention and decision-making*. Poster presented at the annual meeting of the Object Perception, Attention, and Memory (OPAM) conference, San Francisco, CA.
- McKinney, M. R., Lee, D. S., & **Anderson, B. A.** (November). *Effort-driven attentional capture*. Poster presented at the annual meeting of the Object Perception, Attention, and Memory (OPAM) conference, San Francisco, CA.
- Warren, R., Clement, A., & **Anderson, B. A.** (November). *It's all about me: Attentional prioritization of self-rewarding information*. Poster presented at the annual meeting of the Object Perception, Attention, and Memory (OPAM) conference, San Francisco, CA.
- Woodson, F., Liao, M.-R., & **Anderson, B. A.** (November). *Examining the impact of acetaminophen on early attentional processing of emotional images*. Poster presented at the annual meeting of the Object Perception, Attention, and Memory (OPAM) conference, San Francisco, CA.
- Anderson, B. A.** (November). *Managing distraction is effortful*. Paper presented at the annual meeting of the Psychonomic Society, San Francisco, CA.
- Clement, A., & **Anderson, B. A.** (November). *Contextual learning facilitates search but leads to suboptimal search strategies*. Paper presented at the annual meeting of the Psychonomic Society, San Francisco, CA.
- Lee, D. S., Clement, A., Gregoire, L., & **Anderson, B. A.** (November). *Relating aversive conditioning to the strategic control of attention*. Poster presented at the annual meeting of the Psychonomic Society, San Francisco, CA.
- Yan, N., & **Anderson, B. A.** (November). *An exploration of the cross-modal generalizability of selection history-dependent attentional bias*. Poster presented at the annual meeting of the Psychonomic Society, San Francisco, CA.
- Woodson, F., Liao, M.-R., & **Anderson, B. A.** (November). *Examining the impact of acetaminophen on early attentional processing of emotional images*. Poster presented at the annual meeting of the Psychonomic Society, San Francisco, CA.
- McKinney, M. R., Lee, D. S., & **Anderson, B. A.** (May). *Effort-driven attentional capture*. Poster presented at the annual meeting of the Psychonomic Society, San Francisco, CA.
- Youn, S., & **Anderson, B. A.** (November). *Mechanisms of cognitive control and distractor suppression in heavy drinkers*. Poster presented at the annual meeting of the Psychonomic Society, San Francisco, CA.
- Jahan, N., Gregoire, L., Bailon, E., Spencer, J., & **Anderson, B. A.** (November). *Risk preferences in attention and decision-making*. Poster presented at the annual meeting of the Psychonomic Society, San Francisco, CA.
- McKinney, M. R., Lee, D. S., & **Anderson, B. A.** (May). *Effort-driven attentional capture*. Poster presented at the annual meeting of the Vision Sciences Society, St. Pete Beach, FL.
- Gregoire, L., Dubravac, M., Moore, K., Kim, N., & **Anderson, B. A.** (May). *Vicarious learning of threat-related attentional capture*. Poster presented at the annual meeting of the Vision Sciences Society, St. Pete Beach, FL.
- Moore, K., Gregoire, L., Clement, A., & **Anderson, B. A.** (May). *Generalization of threat-related attentional priority with visual objects*. Poster presented at the annual meeting of the Vision Sciences Society, St. Pete Beach, FL.

- Warren, R., Clement, A., & **Anderson, B. A.** (May). *It's all about me: Attentional prioritization of self-rewarding information*. Poster presented at the annual meeting of the Vision Sciences Society, St. Pete Beach, FL.
- Woodson, F., Liao, M.-R., & **Anderson, B. A.** (May). *Examining the impact of acetaminophen on early attentional processing of emotional images*. Poster presented at the annual meeting of the Vision Sciences Society, St. Pete Beach, FL.
- Lee, D. S., Clement, A., & **Anderson, B. A.** (May). *Is singleton detection really less effortful than feature search?* Poster presented at the annual meeting of the Vision Sciences Society, St. Pete Beach, FL.
- Yan, N., & **Anderson, B. A.** (May). *The role of report history in attribute amnesia*. Poster presented at the annual meeting of the Vision Sciences Society, St. Pete Beach, FL.
- Youn, S., & **Anderson, B. A.** (May). *Value-driven attentional capture and reward variability*. Poster presented at the annual meeting of the Vision Sciences Society, St. Pete Beach, FL.
- Clement, A., & **Anderson, B. A.** (May). *Memory compression facilitates search for multiple targets*. Paper presented at the annual meeting of the Vision Sciences Society, St. Pete Beach, FL.

2022

- Kim N., Gregoire, L., **Anderson, B. A.**, Suermann, P. C., and Ahn, C. R. (November). *How personality affects construction workers' vigilance to repeatedly exposed struck-by hazards in road work zones*. Paper presented at the International Conference on Construction Applications of Virtual Reality, Seoul, South Korea.
- Clement, A., Pratt, J., & **Anderson, B. A.** (November). *Attentional avoidance of cognitive and physical effort*. Paper presented at the Object Perception, Attention, and Memory (OPAM) conference, Boston, MA.
- Liao, M.-R., Dillard, M. H., Alexander, H. K., Hour, J. L., Yorzinski, J. L., & **Anderson, B. A.** (November). *Investigating value-driven attention in an avian model*. Poster presented at the Object Perception, Attention, and Memory (OPAM) conference, Boston, MA.
- Lee, D. S., Khan, H., & **Anderson, B. A.** (November). *Selection history vs. optimality in the choice of attentional control strategy*. Poster presented at the Object Perception, Attention, and Memory (OPAM) conference, Boston, MA.
- Yan, N., & **Anderson, B. A.** (November). *Attribute amnesia driven entirely by selection history*. Poster presented at the Object Perception, Attention, and Memory (OPAM) conference, Boston, MA.
- Gregoire, L., Mrkonja, L., & **Anderson, B. A.** (November). *Semantic cross-modal generalization of value-driven attention*. Poster presented at the Object Perception, Attention, and Memory (OPAM) conference, Boston, MA.
- Anderson, B. A.**, & Lee, D. S. (November). *Visual search as effortful work*. Paper presented at the annual meeting of the Psychonomic Society, Boston, MA.
- Gregoire, L., & **Anderson, B. A.** (November). *Instructional learning of threat-related attentional bias*. Poster presented at the annual meeting of the Psychonomic Society, Boston, MA.
- Clement, A., & **Anderson, B. A.** (November). *Statistical learning facilitates search for multiple targets*. Poster presented at the annual meeting of the Psychonomic Society, Boston, MA.
- Liao, M.-R., Garcia, C., Vierkant, V., Kotek, C., Woodson, F. R., Lulo, V., & **Anderson, B. A.** (November). *Effect of acetaminophen on aversive conditioning and attentional bias*. Poster presented at the annual meeting of the Psychonomic Society, Boston, MA.
- Lee, D. S., Khan, H., & **Anderson, B. A.** (November). *Selection history vs. optimality in the choice of attentional control strategy*. Poster presented at the annual meeting of the Psychonomic Society, Boston, MA.

- Yan, N., & **Anderson, B. A.** (November). *The Role of task-relevance in the learning of value-based attentional priority*. Poster presented at the annual meeting of the Psychonomic Society, Boston, MA.
- Clement, A., Pratt, J., & **Anderson, B. A.** (October). *Attentional avoidance of cognitive and physical effort*. Paper presented at the annual meeting of the Association for Research on Memory, Attention, Decision-making, Intelligence, Language, Learning, and Organization (ARMADILLO), Stephenville, TX.
- Warren, R., Clement, A., & **Anderson, B. A.** (October). *It's all about me: Attentional prioritization of self-rewarding information*. Paper presented at the annual meeting of the Association for Research on Memory, Attention, Decision-making, Intelligence, Language, Learning, and Organization (ARMADILLO), Stephenville, TX.
- Kim, N., Gregoire, L., **Anderson, B. A.**, & Ahn, C. R. (June). *Construction workers' sensation-seeking and inattentiveness to warning alarms from construction vehicles*. Paper presented at the International Conference on Construction Engineering and Project Management, Las Vegas, NV.
- Lee, D. S., & **Anderson, B. A.** (May). *Goal-directed control of visual attention and the minimization of effort*. Paper presented at the annual meeting of the Vision Sciences Society, St. Pete Beach, FL.
- Liao, M.-R., Dillard, M. H., Alexander, H. K., Hour, J. L., Yorzinski, J. L., & **Anderson, B. A.** (May). *Investigating value-driven attention in an avian model*. Poster presented the annual meeting of the Vision Sciences Society, St. Pete Beach, FL [virtual].
- Yan, N., Grindell, J. D., & **Anderson, B. A.** (May). *The role of encoding history in visual working memory encoding: Evidence from attribute amnesia*. Poster presented at the annual meeting of the Vision Sciences Society, St. Pete Beach, FL.
- Gregoire, L., Kim, N., Razavi, M., Yan, N., Ahn, C. R., & **Anderson, B. A.** (May). *Reducing risk habituation to struck-by hazards in a road construction environment using virtual reality behavioral intervention*. Poster presented at the annual meeting of the Vision Sciences Society, St. Pete Beach, FL.
- Clement, A., & **Anderson, B. A.** (May). *Statistical learning facilitates the strategic use of attentional control*. Poster presented at the annual meeting of the Vision Sciences Society, St. Pete Beach, FL.

2021

- Liao, M.-R., Garcia, C., Vierkant, V., Kotek, C., Woodson, F. R., Lieto, G., Lulo, V., & **Anderson, B. A.** (2021). *Effect of acetaminophen on aversive conditioning and attentional bias*. UNSW Workshop on Expectation, Perception and Cognition, Sydney, Australia [virtual].
- 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 [virtual].
- Kim, H., Ogden, A., Cabrera, A., Bibb, N., & **Anderson, B. A.** (November). *Dissociable influences of gain- and loss-signaling distractors during decision-making*. Paper presented at the annual meeting of the Psychonomic Society, New Orleans, LA [virtual].
- Liao, M.-R., Dillard, M. H., Hour, J. L., Alexander, H. K., Yorzinski, J. L., & **Anderson, B. A.** (November). *Peck To Go: A Modular and Mobile Touchscreen-Equipped Behavioral Testing Solution*. Poster presented at the annual meeting of the Society for Computation in Psychology, New Orleans, LA [virtual].
- 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 [virtual].

- 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 Psychonomic Society, New Orleans, LA [virtual].
- 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 Psychonomic Society, New Orleans, LA [virtual].
- 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 Psychonomic Society, New Orleans, LA [virtual].
- 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 Psychonomic Society, New Orleans, LA [virtual].
- 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 Psychonomic 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 Psychonomic 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 Psychonomic 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 Psychonomic 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 Psychonomic 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 Psychonomic 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 Psychonomic 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 Psychonomic 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. (March, 2024). *Learning to Attend and Ignore: From Basic Theory to Real-World Impact*. Invited Address, Texas A&M Community of Faculty Retirees.

Anderson, B. A. (May, 2023). *Value-Driven Attention and the Story Behind the Science*. Invited Address, Annual Meeting of the Vision Sciences Society.

Anderson, B. A. (April, 2023). *Selection History and the Value-Driven Control of Attention*. Carnegie Mellon University.

Anderson, B. A. (March, 2023). *Attentional Control as Cognitive Effort*. Villanova University.

Anderson, B. A. (July, 2022). *Selection History and the Suppression of Physically Salient Stimuli*. LMU Center for Advanced Studies, Munich, Germany.

Anderson, B. A. (February, 2022). *Selection History and the Learning-Dependent Control of Attention*. University of Iowa.

- Anderson, B. A.** (December, 2021). *How Reward Learning and Aversive Conditioning Bias Attention and Information Processing*. Expectation, Perception, and Cognition Workshop, University of New South Wales, Australia.
- 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
European Journal of Neuroscience
Biological Psychology
Neuropsychologia
Behavioural Brain Research
Journal of Neurophysiology
Cognition
JEP: General
Psychological Bulletin
Communications Psychology
Current Opinion in Psychology
Trends in Cognitive Sciences
Current Biology
iScience
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
Nature Human Behaviour
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
Affective Science
Cognitive, Affective, & Behavioral Neuroscience
Prog. Neuropsychopharmacol. Biol. Psychiatry
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
Personality Neuroscience
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

- 2023 *Ad hoc grant reviewer*, Cognitive Neuroscience (CogNeuro) study section (NSF)
- 2023 *Panel Member*, Human Complex Mental Function [HCMF] study section (NIH)
- 2023 *Ad hoc grant reviewer*, Israel Science Foundation
- 2022 *Ad hoc grant reviewer*, Dutch Research Council (NWO)
- 2022 *Ad hoc grant reviewer*, Biobehavioral and Behavioral Processes (BBBP) study section (NIH)
- 2021 *Ad hoc grant reviewer*, Perception, Action, and Cognition (PAC) study section (NSF)
- 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

Association for Psychological Science (Fellow)

American Psychological Association

TEACHING EXPERIENCE

Texas A&M University

Instructor:

Sensation and Perception (PSYC/NRSC 320)

(Spring 2017, 2018; Fall 2017, 2018, 2019, 2020, 2021, 2022, 2023)

Cognitive Neuroscience of Attention (PSYC 689)

(Spring 2019)

Professional Development Seminar (PSYC 689)
(Summer 2021)
Eye Tracking and Visual Psychophysics (PSYC 689)
(Spring 2021)
Co-instructor: *Principles of Neuroscience II (NRSC 602)--lecture on Sensation and Perception*
(Spring 2017, 2018, 2019, 2020, 2021, 2022)
Neuroscience Overview (NRSC 101)--lecture on Sensation and Perception
(Spring 2021; Fall 2020, 2021, 2022)

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

2023- CCN Area Head and Member of the Academic Council
2022- Tenure and Promotion Committee
2021-2023 Graduate Studies and Admissions Committee (CCN representative)
2019-2022 Director of Human Imaging
2020-2021 Diversity and Inclusion Committee (CCN representative)
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

2023- Committee on Participant Recruitment, Office of the Vice President of Research
2022- Director of the Human Imaging Facility (HIF)
2022- Research Advisory Council, College of Arts and Sciences
2020-2022 Undergraduate Program Committee, TAMIN
2020-2021 President's Excellence Fund Steering Committee

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