

Adam S. Greenberg, Ph.D.

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Education

- Ph.D. 2010 Johns Hopkins University (Psychological & Brain Sciences)
advisor: Steven Yantis, PhD
Thesis: "*Uncertainty as a Guiding Principle in the Strategic Allocation of Attention to Objects*"
- M.S. 2001 University of Alabama at Birmingham (Biomedical Engineering)
- B.S. 1996 Case Western Reserve University (Biomedical Engineering)
minors: Artificial Intelligence, Music

Professional Experience

- 2019- Assistant Professor, Biomedical Engineering, Medical College of Wisconsin/Marquette University
- 2019- Assistant Professor (Secondary), Department of Ophthalmology & Visual Sciences, Medical College of Wisconsin
- 2013-2019 Assistant Professor, Psychology, University of Wisconsin-Milwaukee
- 2013-2019 Adjunct Assistant Professor, Clinical & Translational Science Institute of SE Wisconsin, Medical College of Wisconsin
- 2019 Adjunct Assistant Professor, Department of Ophthalmology, Medical College of Wisconsin
- 2010-2013 Postdoctoral researcher, Psychology, Carnegie Mellon Univ & CNBC
supervisor: Marlene Behrmann, PhD
- 2001-2004 Research scientist, Lab of Brain & Cognition, NIMH Intramural
supervisor: Leslie Ungerleider, PhD
- 1999-2001 Research asst., Medicine, Radiology, & Speech Sciences, UAB
supervisors: Anjan Chatterjee, MD; G. Deutsch, PhD; H. Southwood, PhD
- 1995-1996 Research asst., Psychology & Biomedical Engineering, CWRU
supervisors: Grover "Cleve" Gilmore, PhD and Cecil Thomas, PhD

Honors and Awards

- 2016 Fellow, The Psychonomic Society
- 2008 Travel Award, Marie Curie School in Neuroscience, Abruzzo, Italy
- 2007 Finalist, Dean's Teaching Fellowship, Johns Hopkins University
- 2001-2003 Intramural Research Training Award Fellowship, NIMH
- 1996-1999 Graduate Fellowship, Univ of Ala at Birmingham, School of Engineering
- 1995 Undergrad Research Internship Award, Case Alumni Association

Grant/Contract Funding

Active:

- 2017-2020 Medical Research RFP, Greater Milwaukee Foundation, "Leveraging Cognitive Science to Identify Biomarkers of 'Chemobrain'"
Role: PI Direct costs: \$200,000
- 2018-2020 Pilot Grant, Clinical & Translational Science Institute of Southeast Wisc, "Neuropsychological & Neurobiological Markers of Attentional Control Fluctuations Associated with Anxiety"
Role: PI (co-PIs: C. Larson, E. DeYoe) Direct costs: \$50,000

- 2018-2020 Research Grant, American Society of Breast Surgeons Foundation
Role: PI Direct costs: \$5,000
- 2019-2020 UWM Research Growth Initiative, "Individual differences in voxel-wise modeling of attention fields in the human motor system"
Role: co-PI (co-PI: W. Huddleston) Direct costs: \$177,091
- 2019 Support for Undergraduate Research Fellows, Univ of Wisc-Milwaukee
Role: Sponsor Direct costs: \$4,500
Support for undergrad RAs (A. Johnson, C. Doolittle, & E. VandenBosch)

Pending:

Pilot Grant, Clinical & Translational Science Institute of Southeast Wisc, "Attentional Control and Driver Behavior: A Social Environment and Aging-Related Investigation"
Role: PI (co-PIs: E. DeYoe; R. Schneider) Direct costs: \$50,000

National Eye Institute, NIH R01, "Retinal Versus Cortical Contributions of Vision Loss in Albinism"
Role: MPI (MPIs: J. Carroll; E. DeYoe) Direct costs: \$2,451,447

National Cancer Institute, NIH R01, "Characterizing & Predicting Aromatase Inhibitor-Related Cognitive Impairment: A Longitudinal Neuroscience Approach"
Role: co-I (PI: A. Nattinger) Direct costs: \$1,566,000

National Institute of Mental Health, NIH R01, "Improving the Health and Well-Being of Veterans with Post-Traumatic Stress Disorder: Effectiveness and Neurocognitive Correlates of Music-Instruction Intervention"
Role: co-I (PI: L. Pezzin) Subcontract direct costs: \$346,676

US-Israel Binational Science Foundation Grant, "Mental Representation During Dynamic Occlusion: Neural Basis and Evolutionary Origin"
Role: MPI (MPI: S. Gabay) Direct costs: \$200,000

National Eye Institute, NIH R01, "Brain Map Structure: A Neural Basis for Attention-Mediated Behavior in Perception and Action"
Role: co-I (PIs: W. Huddleston; E. DeYoe) Direct costs: \$1,895,660

Completed:

- 2018 UWM Online Course Seed Funding Grant
Role: PI Direct costs: \$4,000
- 2017-2018 UWM Collaborative Research Grant, "Leveraging Big Data to Unmask the Functional Connectome of Attention"
Role: co-PI (co-PI: W. Huddleston, E. DeYoe) Direct costs: \$15,000

- 2016-2018 UWM Research Growth Initiative, “The Universal Nature of Topographic Maps as the Structural Foundation of Attention”
Role: PI (co-Is: E. DeYoe, W. Huddleston) Direct costs: \$202,528
- 2016-2018 Pilot Grant, Clinical & Translational Science Institute of Southeast Wisc, “Cortical Structure and Function as Possible Mediators of Performance on an Attention task: A pilot study”
Role: co-I (PIs: W. Huddleston, E. DeYoe) Direct costs: \$50,000
- 2014-2017 US-Israel Binational Science Foundation Start-Up Grant, “The Neural Basis of Object-Guided Attention and its Evolutionary Origin”
Role: co-PI (co-PI: S. Gabay) Direct costs: \$120,000
- 2016 UWM Letters & Science New Online Course Development Grant
Role: PI Direct costs: \$5,000
- 2015-2016 MCW Center for Imaging Research Daniel M. Soref Award, “Tonotopic Mapping & Cortical Magnification Estimation at 7 Tesla”
Role: PI Direct costs: \$7,500
- 2014-2018 Support for Undergraduate Research Fellows, Univ of Wisc-Milwaukee
Role: Sponsor Direct costs: \$54,800
Support for the following undergraduate RAs:
Cassandra Doolittle, auditory object perception, \$1,500
AnnDee Johnson, object-based auditory attention, \$7,500
Erin VandenBosch, object-based visual attention, \$3,000
Souriyo Dishak, attentional control fluctuations, \$4,500
Hannah Sallmann, attentional control fluctuations, \$6,500
Samantha Stelpflug, chemotherapy-induced cognitive decline, \$3,000
Richard Dubbelde, contingent attention capture, \$10,000
Grace Nicora, object-based attention and perceptual organization, \$7,000
Nicole Kashian, longitudinal study on fluctuations of attention, \$3,000
Katherine Potkonjak, auditory scene analysis & music perception, \$6,400
Matthew Bach, object-based attention and perceptual organization, \$2,400
- 2012-2013 NIH Postdoctoral NRSA Fellowship, T32-MH019983
Role: trainee Sponsor: Marlene Behrmann, PhD
- 2012 Advertising Research Foundation – Research Contract
- 2006-2009 NIH Individual Predoctoral NRSA Fellowship, F31-NS055664
Role: PI Sponsor: Steven Yantis, PhD
- 1999 fMRI Pilot Grant, Alabama Center for Imaging Research
Role: co-PI (co-PI: M. Sloane) Direct costs: \$10,000

Journal Publications (students/trainees underlined; * indicates senior author)

- G. Gurariy, R. Randall, **A.S. Greenberg*** (submitted). Manipulation of Low-Level Features Modulates Grouping Strength of Auditory Objects.
- N. Strommer-Davidovich, S. Al-Janabi, **A.S. Greenberg**, S. Gabay (submitted). The Role of Subcortical Regions in Object-Based Attention.
- A.S. Greenberg**, S.R. Friedman-Hill, L. Pessoa, L.G. Ungerleider (submitted). Neural Correlates of Distracter Filtering During Covert Attention in Humans.
- G. Nicora, **A.S. Greenberg*** (2018). Object Closure Modulates the Strength of Object-Based Attentional Filtering. *PsyArXiv*. Web.
- S. Al-Janabi, N. Strommer-Davidovich, S. Gabay, **A.S. Greenberg*** (2018). Object-Based Attentional Selection Emerges Late in the Visual Cortical Hierarchy for Objects of Varying Perceptual Strength. *BioArXiv*. Web.
- A. Barnas, **A.S. Greenberg*** (2018). Object-Based Attention Shifts are Driven by Target Location, not Object Placement. *PsyArXiv*. Web.
- S. Al-Janabi, **A.S. Greenberg*** (2016). Target-Object Integration, Spatial Attention Distribution, and Object Orientation Interactively Modulate Object-Based Selection. *Attention, Perception, & Psychophysics*, 78(7):1968–1984.
- A.J. Barnas, **A.S. Greenberg*** (2016). Visual Field Meridians Modulate the Reallocation of Object-Based Attention. *Attention, Perception, & Psychophysics*, 78(7):1985–1997.
- L. Gmeindl, Y-C Chiu, M.S. Esterman, **A.S. Greenberg**, S.M. Courtney, S. Yantis (2016). Tracking the Will to Attend: Cortical Activity Indexes Self-Generated, Voluntary Shifts of Attention. *Attention, Perception, & Psychophysics*, 78(7):2176–2184.
- F. Uyar, S. Shomstein, **A.S. Greenberg**, M. Behrmann (2016). Retinotopic Information Interacts with Category Selectivity in Human Ventral Cortex. *Neuropsychologia*, 92:90-106.
- G. Senturk, **A.S. Greenberg**, T. Liu (2016). Both Exogenously and Endogenously Driven Object-Based Attention Affect Saccade Latency. *Attention, Perception, & Psychophysics*, 78(7):1998–2013.
- R. Randall, **A.S. Greenberg** (2016). Principal Component Analysis of Musicality in Pitch Sequences, *Proceedings of the 14th International Conference on Music Perception and Cognition*, San Francisco, CA. pp112-118.
- A.S. Greenberg**, M. Rosen, E. Cutrone, M. Behrmann (2015). The Effects of Visual Search Efficiency on Object-Based Attention, *Attention, Perception, & Psychophysics*, 77(5):1544-57.

- A. Seydell-Greenwald, **A.S. Greenberg**, J.P. Rauschecker (2014). Are You Listening? Brain Activation Associated with Sustained Nonspatial Auditory Attention in the Presence and Absence of Stimulation, *Human Brain Mapping*, 35(5):2233-52.
- A.S. Greenberg*** (2012). The Role of Visual Attention in Internet Advertising, *Journal of Advertising Research*, 52(4):400-404.
- J.S. Phillips, **A.S. Greenberg**, J.A. Pyles, S.K. Pathak, M. Behrmann, W. Schneider, M.J. Tarr (2012). Co-Analysis of Brain Structure and Function using fMRI and Diffusion Weighted Imaging, *Journal of Visualized Experiments*, 69:e4125.
- A.S. Greenberg**, T. Verstynen, Y-C Chiu, S. Yantis, W. Schneider, M. Behrmann (2012). Visuotopic Cortical Connectivity Underlying Attention Revealed with White-Matter Tractography, *Journal of Neuroscience*, 32(8):2773-2782. [press release at <http://bit.ly/wUhuFh>]
- A.S. Greenberg**, M. Esterman, D. Wilson, J.T. Serences, S. Yantis (2010). Control of Spatial and Feature-Based Attention in Frontoparietal Cortex, *Journal of Neuroscience*, 30(43):14330-14339.
- A.S. Greenberg** & L. Gmeindl (2008). Strategic Control of Attention to Objects and Locations, *Journal of Neuroscience*, 28(3):564-5.
- A. Qiu, B.J. Rosenau, **A.S. Greenberg**, M.K. Hurdal, P. Barta, S. Yantis, M.I. Miller (2006) Estimating Linear Cortical Magnification in Human Primary Visual Cortex via Dynamic Programming, *NeuroImage*, 31(1):125-38.

Manuscripts in preparation (students/trainees underlined)

- S.Dishak, **A.S. Greenberg*** (in prep). Political Affiliation Differentially Affects Implicit and Explicit Biases.
- M. Kulkarni, K. Potkonjak, R. Randall, **A.S. Greenberg*** (in prep). Formal Music Education Alters Perceived Musicality of Pitch Sequences.
- S. Al-Janabi, **A.S. Greenberg*** (in prep). Object-Based Attention Depends on Mode of Orienting During Limited Exposure Duration.
- A.S. Greenberg**, L. Gmeindl, M. Esterman (in prep). Initiation of Attention Shifts is Affected by Shift/Hold Cue Ratio.

Book chapters and theses

- A.L. Shelton & **A.S. Greenberg** (2009). Statistical Tests and Inferences in Functional Neuroimaging, In L.R. Squire (ed.) *Encyclopedia of Neuroscience*, volume 9, pp. 393-400. Oxford: Academic Press.
- A.S. Greenberg** (2009). *Uncertainty as a Guiding Principle in the Strategic Allocation of Attention to Objects*, Ph.D. Thesis, The Johns Hopkins University, Baltimore, MD. [ProQuest Publication No. AAT 3410160]

A.S. Greenberg (2001). *A Partial k-Space MRI Tagging Technique for Skeletal Muscle Strain Map Generation*, M.S. Thesis, The University of Alabama at Birmingham.

A.S. Greenberg (1996). *Deconvolution of Optical Coherence Tomographic Images*, Senior Engineering Thesis, Case Western Reserve University.

Published conference abstracts (students/trainees underlined)

S. Al-Janabi, N. Strommer-Davidovich, S. Gabay, **A.S. Greenberg** (2017). Object-based attentional selection emerges early in visual cortex for object percepts of varying strength, *Journal of Vision*, 17(10):1333.

A.J. Barnas, **A.S. Greenberg** (2017). Target location, rather than object location, drives the object-based attention shift direction anisotropy, *Journal of Vision*, 17(10):1334.

D. Dubbelde, **A.S. Greenberg** (2017). Proportional context of distracters alters top-down sets during contingent attention capture, *Journal of Vision*, 17(10):947.

A.S. Greenberg, A. Stauffacher (2017). Trump makes us “see red”; Clinton makes us “feel blue”, *Journal of Vision*, 17(10):1180.

S. Al-Janabi, **A.S. Greenberg** (2016). Perceptual Completion Alters the Cortical Level at which Object-Based Attentional Selection is Evident, *Journal of Vision*, 16(12):688.

A. Barnas, **A.S. Greenberg** (2016). Object-Based Attention Shift Direction Efficiency: Behavior and a Model, *Journal of Vision*, 16(12):699.

S. Al-Janabi, **A.S. Greenberg** (2015). Target ‘on’ or ‘of’ an Object? It Does Not Matter for Object-Based Attention, *Journal of Vision*, 15(12):885.

A. Barnas, **A.S. Greenberg** (2015). Shifts of Object-Based Attention Differ Across Visual Field Meridians, *Journal of Vision*, 15(12):900.

G. Senturk, **A.S. Greenberg**, T. Liu (2015). Object-Based Attention Influences Saccade Latency, *Journal of Vision*, 15(12):1262.

A.S. Greenberg, D. Hayes, A. Roggeveen, S. Creighton, P. Bennett, A. Sekuler, K. Pilz (2014). Object-Based Attention is Modulated by Shifts Across the Meridians, *Journal of Vision*, 14(10):1062.

A.S. Greenberg, M. Behrmann (2013). Object-Based Attention Capture is a Determinant of Object Closure Effects, *Journal of Vision*, 13(9):141.

S. Shomstein, F. Uyar, **A.S. Greenberg**, M. Behrmann (2013). Sensory Processing with Varying Degrees of Attention: Lessons from Hemispatial Neglect, *Journal of Vision*, 13(9):286.

- A.S. Greenberg**, M. Rosen, K. Zamora, E. Cutrone, M. Behrmann (2012). Object-Based Attention is Impervious to Nearby Targets During Visual Search, *Journal of Vision*, 12(9):1156.
- A.S. Greenberg**, M. Behrmann (2011). Perceptual Grouping Gives Rise to Object Perception: Evidence from Psychophysical Reverse Correlation, *Journal of Vision*, 11(11):1064.
- A.S. Greenberg**, S. Yantis (2010). Object-Based Attentional Selection is Affected by Visual Search Strategy, *Journal of Vision*, 10(7):172.
- A.S. Greenberg**, S. Yantis (2008). An Objective Measure of the Relative Strength of Perceptual Grouping Cues using Object-based Attention, *Journal of Vision*, 8(6):1019.
- B.J. Rosenau, **A.S. Greenberg**, J.S. Sunness, S. Yantis (2008). Cortical Lesion Projection Zone Activity in Retinal Disease Patients is Caused by Object-specific Feedback, not Plasticity, *Journal of Vision*, 8(6):490.
- A.S. Greenberg**, J.T. Serences, S. Yantis (2006). Object-based Attention Does Not Automatically Spread Throughout an Object, *Journal of Vision*, 6(6):594.
- A. Qiu, B.J. Rosenau, **A.S. Greenberg**, P. Barta, S. Yantis, M.I. Miller (2005) Localizing Retinotopic fMRI Activation in Human Primary Visual Cortex via Dynamic Programming, *IEEE Eng Med Biol Soc*, 2:1313-16.
- S. Vaishnavi, **A. Greenberg**, A. Chatterjee (1999). A Preattentive Visual Deficit Without Visual Agnosia, *Journal of The International Neuropsychological Society*, 5:107.

Conference presentations (students/trainees underlined)

- A.J. Barnas, **A.S. Greenberg** (2018). Object-based attention is modulated by shift direction and visual field quadrant, *poster* to be presented at the *2018 Vision Sciences Society Annual Meeting*, St. Pete Beach, FL.
- S. Al-Janabi, N. Strommer-Davidovich, S. Gabay, **A.S. Greenberg** (2017). Object-based attentional selection emerges late in visual cortex for object percepts of varying strength, *talk* presented at the *Society for Neuroscience 47th Annual Meeting*, Washington, DC.
- A.S. Greenberg** (2017). Perceptual Organization Modulates the Uncertainty that Drives Object-Based Attention, *talk* presented at the *Configural Processing Consortium 2017 Annual Meeting*, Vancouver, BC.
- A. Barnas, **A.S. Greenberg** (2017). Separable effects of object-based attention: The same-object advantage and the shift direction anisotropy, *poster* to be presented at *OPAM 2017*, Vancouver, BC.

- M. Kulkarni, W. Huddleston, E. DeYoe, **A.S. Greenberg** (2017). Topographic maps in attention control regions mediate frequency-based auditory attention, *poster* to be presented at *OPAM 2017*, Vancouver, BC.
- A.S. Greenberg**, S. Al-Janabi, A.J. Barnas (2017). Object-Based Attention is Strategic
CSAIL conference, Hood River, OR.
- S. Al-Janabi, N. Strommer-Davidovich, S. Gabay, **A.S. Greenberg** (2017). Object-based attentional selection emerges late in visual cortex for object percepts of varying strength, *poster* presented at the *2017 Vision Sciences Society Annual Meeting*, St. Pete Beach, FL.
- A.J. Barnas, **A.S. Greenberg** (2017). Target location, rather than object location, drives the object-based attention shift direction anisotropy, *poster* presented at the *2017 Vision Sciences Society Annual Meeting*, St. Pete Beach, FL.
- D. Dubbelde, **A.S. Greenberg** (2017). Proportional context of distracters alters top-down sets during contingent attention capture, *poster* presented at the *2017 Vision Sciences Society Annual Meeting*, St. Pete Beach, FL.
- A.S. Greenberg**, A. Stauffacher (2017). Trump makes us “see red”; Clinton makes us “feel blue”, *poster* presented at the *2017 Vision Sciences Society Annual Meeting*, St. Pete Beach, FL.
- G.L. Nicora, **A.S. Greenberg** (2016). Object closure affects the strength of object-based attentional filtering, *poster* presented at the *Psychonomic Society's 57th Annual Meeting*, Boston, MA.
- M. Kulkarni, **A.S. Greenberg** (2016). Music Expertise Alters the Perception of Auditory Objects, *talk* presented at *APCAM 2016*, Boston, MA.
- A. Barnas, **A.S. Greenberg** (2016). The object-based attention shift direction anisotropy may depend on expectations about shifting across visual field meridians, *poster* presented at *OPAM 2016*, Boston, MA.
- S. Al-Janabi, N. Strommer-Davidovich, S. Gabay, **A.S. Greenberg** (2016). Object-based attention acts upon degraded object representations in early visual cortex, *poster* presented at the *Society for Neuroscience 46th Annual Meeting*, San Diego, CA.
- R. Randall, **A.S. Greenberg** (2016). Principal Component Analysis of the Perception of Musicality in Pitch Sequences, *poster* presented at the *14th International Conference for Music Perception and Cognition*, San Francisco, CA.
- A. Barnas, **A.S. Greenberg** (2016). Object-Based Attention Shift Direction Efficiency: Behavior and a Model, *poster* presented at the *2016 Vision Sciences Society Annual Meeting*, St. Pete Beach, FL.

- S. Al-Janabi, **A.S. Greenberg** (2016). Perceptual Completion Alters the Cortical Level at which Object-Based Attentional Selection is Evident, *poster* presented at the *2016 Vision Sciences Society Annual Meeting*, St. Pete Beach, FL.
- G.L. Nicora, **A.S. Greenberg** (2016). Object Closure Affects Attentional Filtering of Flanking Distracters, *poster* presented at the *UWM Undergraduate Research Symposium*, Milwaukee, WI.
- R. Dubbelde, **A.S. Greenberg** (2016). Feature-Based Contingent Attention Capture is Altered by Context, *poster* presented at the *UWM Undergraduate Research Symposium*, Milwaukee, WI.
- N. Strommer-Davidovich, S. Al-Janabi, **A.S. Greenberg**, S. Gabay (2016). The Evolutionary Nature of Object-Based Attention, *talk* presented at the *3rd Conference on Cognition Research of the Israeli Society for Cognitive Psychology*, Akko, Israel.
- M. Kulkarni, K. Potkonjak, R. Randall, **A.S. Greenberg** (2015). Music Expertise Alters Perceived Musicality of Pitch Sequences, *poster* presented at *APCAM 2015*, Chicago, IL.
- S. Al-Janabi, **A.S. Greenberg** (2015). Target-Object Integration Interacts with Object Orientation During Object-Based Selective Attention, *poster* presented at *OPAM 2015*, Chicago, IL.
- A. Barnas, **A.S. Greenberg** (2015). Object-Based Attention is Oriented More Efficiently Along the Horizontal Meridian than the Vertical Meridian, *poster* presented at *OPAM 2015*, Chicago, IL.
- G. Nicora, **A.S. Greenberg** (2015). The Strength of Object-Based Attentional Selection is Affected by Closure, *poster* presented at the *Psychonomic Society's 56th Annual Meeting*, Chicago, IL.
- A.S. Greenberg**, R. Randall (2015). The Role of Auditory Cortex in Mid-Level Audition, *talk* presented at the *Society for Neuroscience 45th Annual Meeting*, Chicago, IL.
- G.L. Nicora, **A.S. Greenberg** (2015). The Role of Closure in Object-Based Attentional Selection, *poster* presented at the *UW-System Symposium*, Milwaukee, WI.
- K. Potkonjak, **A.S. Greenberg** (2015). The Effects of Musical Training on Perceived Auditory Object Musicality, *poster* presented at the *UW-System Symposium*, Milwaukee, WI.
- A.S. Greenberg**, R. Randall (2014). Separate Networks for Music Processing and Auditory Scene Analysis, *talk* presented at the *Society for Neuroscience 44th Annual Meeting*, Washington, DC.
- S. Shomstein, F. Uyar, **A.S. Greenberg**, M. Behrmann (2014). Sensory Processing with

Varying Degrees of Attention - Lessons from Parietal Lobe Damage, *talk* presented at the *Society for Neuroscience 44th Annual Meeting*, Washington, DC.

- A.S. Greenberg**, R. Randall (2013). Functionally Defining the Neural Correlates of Music Processing, *poster* presented at the *Society for Neuroscience 43rd Annual Meeting*, San Diego, CA.
- S. Shomstein, F. Uyar, **A.S. Greenberg**, M. Behrmann (2013). Improving Quality of Sensory Representations with Prismatic Adaptation, *poster* presented at the *Society for Neuroscience 43rd Annual Meeting*, San Diego, CA.
- R. Randall, **A.S. Greenberg** (2013). Principal Components Analysis of the Perception of Musicality in Pitch Sequences, *talk* presented at the *2013 Biennial Meeting of the Society for Music Perception and Cognition*, Toronto, Canada.
- A.S. Greenberg**, F. Uyar, M. Behrmann, S. Shomstein (2012). Retinotopic Information Interacts with Categorization in Human Object Selective Cortex, *poster* presented at the *Society for Neuroscience 42nd Annual Meeting*, New Orleans, LA.
- F. Uyar, **A.S. Greenberg**, M. Behrmann, S. Shomstein (2012). Sensory Processing with Varying Degrees of Attention: Lessons from Hemispatial Neglect, *poster* presented at the *Society for Neuroscience 42nd Annual Meeting*, New Orleans, LA.
- S. Shomstein, F. Uyar, **A.S. Greenberg**, M. Behrmann (2012). Enhancing Sensory Responses to Neglected Information with Prismatic Adaptation, *poster* presented at the *Society for Neuroscience 42nd Annual Meeting*, New Orleans, LA.
- K. Zamora, **A.S. Greenberg**, M. Rosen, E. Cutrone, M. Behrmann (2012). Object-based Selection Trumps Space-based Selection During Visual Search, *poster* presented at the *2012 Eastern Psychological Association Meeting*, Pittsburgh, PA.
- A.S. Greenberg**, T. Verstynen, Y-C Chiu, S. Yantis, W. Schneider, M. Behrmann (2011). Topographic Structural Connectivity Underlying Visual Attention, *talk* presented at the *Society for Neuroscience 41st Annual Meeting*, Washington, DC.
- A. Seydell-Greenwald, **A.S. Greenberg**, J.P. Rauschecker (2011). An fMRI analysis of frequency-specific attentional modulation in human auditory cortex, *poster* presented at the *Society for Neuroscience 41st Annual Meeting*, Washington, DC.
- A.S. Greenberg**, T. Verstynen, W. Schneider, M. Behrmann (2011). Spatiotopic Structural Connectivity Underlying Visual Attention, *poster* presented at the *17th Annual Meeting of the Organization for Human Brain Mapping*, Quebec City, Canada.
- A.S. Greenberg** (2010). Spatiotopic Structural Connectivity Underlying Visual Attention, *talk* presented at the *Center for the Neural Basis of Cognition 2010 Retreat*, Seven Springs, PA.

- A.S. Greenberg**, M. Behrmann (2010). Quantifying the Emergence of the Whole via Attention and Reverse Correlation, *talk* presented at the *Configural Processing Consortium 2010 Annual Meeting*, St. Louis, MO.
- A.S. Greenberg**, E. Cutrone, M. Behrmann (2010). Object-Based Attention is Modulated by Object Exposure Duration, *poster* presented at the *OPAM 2010 Annual Meeting*, St. Louis, MO.
- A.S. Greenberg**, M. Esterman (2010). Pattern classification of fMRI data on the cortical surface, *poster* presented at the *5th International Workshop on Statistical Analysis of Neuronal Data*, Pittsburgh, PA.
- Y-C Chiu, **A.S. Greenberg**, A. Qiu, M.I. Miller, S. Yantis (2009). Anatomical connectivity underlying the topographical organization of visual spatial attention: A Combined fMRI and DTI Study, *poster* presented at the *Society for Neuroscience 39th Annual Meeting*, Chicago, IL.
- J.S. Sunness, B.J. Rosenau, **A.S. Greenberg**, C.A. Applegate, S. Yantis (2008). The Lack of Remapping of Primary Visual Cortex in Eyes with Central Scotomas from Macular Degeneration, *talk* presented at the *9th International Conference on Low Vision*, Montreal, Ontario, Canada.
- A.S. Greenberg**, D.E. Wilson, J.T. Serences, S. Yantis (2008). Shifts of Attention Elicit Transient, Domain-Independent Signals in Frontoparietal Cortex, *poster* presented at the *Marie Curie School in Neuroscience*, Abruzzo, Italy.
- A.S. Greenberg**, D.E. Wilson, J.T. Serences, S. Yantis (2006). Sources and Targets of Space-Based and Feature-Based Attention in Human Cortex, *talk* presented at the *Society for Neuroscience 36th Annual Meeting*, Atlanta, GA.
- S. Yantis, **A. Greenberg**, D. Wilson (2006). Domain-Independent Mechanisms of Cognitive Control, *talk* presented at *CSAIL*, Hood River, Oregon.
- D.E. Wilson, J.T. Serences, **A.S. Greenberg**, S. Yantis (2005). Dissociating Task Switching Components with Behavioral and Cortical Measures, *poster* presented at the *Society for Neuroscience 35th Annual Meeting*, Washington, DC.
- A.S. Greenberg**, D.E. Wilson, J.T. Serences, S. Yantis (2005). Domain-Independent Attention Shift Signals in Human Frontoparietal Cortex, *poster* presented at the *Society for Neuroscience 35th Annual Meeting*, Washington, DC.
- A. Qiu, B.J. Rosenau, **A.S. Greenberg**, S. Yantis, P. Barta, M.I. Miller (2005). Localizing Retinotopic fMRI Activation in Human Primary Visual Cortex via Dynamic Programming, *poster* presented at *IEEE-EMBS*, Shanghai, China.
- B.J. Rosenau, **A.S. Greenberg**, J.S. Sunness, A. Qiu, P. Barta, M.I. Miller, S. Yantis (2005). Retinal Lesion Projection Zones Identified in Visual Cortex Using fMRI, *poster* presented at *OHBM*, Toronto, Ontario, Canada.

- A. Qiu, B.J. Rosenau, **A.S. Greenberg**, S. Yantis, P. Barta, M.I. Miller (2005). Linear Cortical Magnification Within Human Primary Visual Cortex via Dynamic Programming, *poster* presented at *OHBM*, Toronto, Ontario.
- J.S. Sunness, B.J. Rosenau, **A.S. Greenberg**, C.A. Applegate, S. Yantis (2005). Retinotopic Mapping in Patients with Scotomas from Retinal Disease, *talk* presented at *ARVO*, Fort Lauderdale, Florida.
- S.R. Friedman-Hill, S.E. Gex, S. Japee, **A.S. Greenberg**, L.G. Ungerleider (2004). Specialization Within the Spatial Attention Network: Target Selection Versus Distractor Inhibition, *talk* presented at the *Society for Neuroscience 34th Annual Meeting*, San Diego, California.
- A. Greenberg**, S.R. Friedman-Hill, J. Rickert, L. Pessoa, L.G. Ungerleider (2004). Hemispheric Differences In Attentional Filtering Of Salient Distracters, *talk* presented at the *Society for Neuroscience 34th Annual Meeting*, San Diego, CA.
- A. Greenberg**, S. Friedman-Hill, L. Pessoa, L. Ungerleider (2003). Attentional Filtering of Salient Distracters Involves Fronto-Parietal Regions that Target Ventral Visual Areas, *poster* presented at the *Cognitive Neuroscience Society 10th Annual Meeting*, New York City, NY.
- A. Greenberg**, S. Friedman-Hill, L. Pessoa, L. Ungerleider (2002). Fronto-Parietal Involvement in the Attentional Filtering of Salient Distracters, *poster* presented at the *Society for Neuroscience 32nd Annual Meeting*, Orlando, Florida.
- A. Greenberg**, E. Walsh (2001). Functional Skeletal Muscle Imaging Using Partial *k*-space MRI, *talk* presented at the *ISMRM International Workshop on Non-Invasive Investigation of Muscle Function*, Marseille, France.
- A. Greenberg**, E. Walsh (2001). A Fast Acquisition MRI Tagging Technique for Skeletal Muscle Strain Map Generation, *talk* presented at the *20th Southern Biomedical Engineering Conference*, Birmingham, Alabama.
- A. Greenberg** (1998). An Inexpensive Manual Response Feedback Mechanism for fMRI Experiments at High Field, *poster* presented at the *Biomedical Engineering Society Annual Meeting*, Cleveland, Ohio.

Selected Media Coverage

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| Nov, 2018 | UWM L&S In Focus, "UWM wins national award for undergraduate research excellence" [permalink https://bit.ly/2EZrUIE] |
| Jan, 2018 | NPR Milwaukee Affiliate (WUWM) <i>Lake Effect</i> , "Milwaukee-based studies hope to better understand 'Chemo Brain'" [permalink http://bit.ly/2muwg0r] |
| Nov, 2017 | UWM L&S In Focus, Cover Story, "UWM neuroscientist lands grant to battle 'chemobrain'" [permalink http://bit.ly/2FvFwJw] |

- Aug, 2016 UWM REPORT (Science & Technology); UWM L&S In Focus, "Psychologist zeros in on when sound becomes music" [permalinks <http://bit.ly/2aNIQQY> and <http://bit.ly/2bJqEco>]
- 2/27/2015 CBS News Milwaukee Affiliate (WDJT) Interview, "Blue and Black? Or White and Gold? The science behind #TheDress debate" [permalink <http://bit.ly/1CRWbBy>]
- 2/28/2012 Carnegie Mellon University Homepage Stories (Health & Wellness), "What We (Want To) See" [permalink <http://bit.ly/yEqLiH>]
- Feb, 2012 Dietrich College News, "Visual Attention: How the Brain Works to Select What We (Want To) See" [permalink <http://conta.cc/zMcjWU>]

Invited talks

- Nov, 2019 CME Breast Cancer Symposium, Dept of Surgery, MCW, Milwaukee, WI
- Jan, 2019 Applied Physics Lab, Johns Hopkins University, Laurel, MD
- Nov, 2018 Breast Care 101 Symposium, Dept of Surgery, MCW, Milwaukee, WI
- Mar, 2018 Vision Science Forum, Medical College of Wisconsin, Milwaukee, WI
- Jun, 2017 Elm Grove Public Library, Elm Grove, WI
- Jan, 2016 University of Haifa, Inst of Info Processing & Decision Making, Haifa, Israel
- Jan, 2015 Medical College of Wisconsin, Biophysics Seminar, Milwaukee, WI
- Nov, 2014 University of Wisconsin-Madison, Psychology Colloquium, Madison, WI
- Oct, 2014 Michigan State University, Psychology Brownbag, East Lansing, MI
- Feb, 2014 Carthage College, Natural & Social Sciences Colloquium, Kenosha, WI
- Oct, 2013 George Mason University, Psychology Brownbag, Fairfax, VA
- Feb, 2013 University of Nevada-Reno, Psychology Colloquium, Reno, NV
- Jan, 2013 University of Wisconsin-Milwaukee, Psychology Colloquium, Milwaukee, WI
- Dec, 2012 University of Toronto-Scarborough, Psychology Colloquium, Toronto, ON
- Oct, 2010 Center for the Neural Basis of Cognition Retreat, Seven Springs, PA
- Mar, 2010 University of Pittsburgh, Lab of Monica Perez, Pittsburgh, PA
- Oct, 2009 Georgetown University, Lab of Josef Rauschecker, Washington, DC
- Sep, 2009 Carnegie Mellon University, Lab of Marlene Behrmann, Pittsburgh, PA
- Jul, 2009 University College London, Lab of Nilli Lavie, London, UK
- Dec, 2008 George Mason University, Psychology Colloquium, Fairfax, VA
- Jul, 2008 Discover Hopkins, JHU pre-college program, Baltimore, MD

Editorial Activities

- 2015-2016 Guest Associate Editor, *Attention, Perception, & Psychophysics*, Special Issue on Mechanisms of Attentional Control

Ad-hoc manuscript/book reviewer

Attention Perception & Psychophysics, Behavioural Brain Research, Brain Research, eNeuro, Experimental Brain Research, Human Brain Mapping, Journal of Cognitive Neuroscience, Journal of Experimental Psychology: Human Perception & Performance, Journal of Neuropsychiatry & Cognitive Science, Journal of Neuroscience, Journal of Vision, Nature Neuroscience, Nature Scientific Reports, Neuron, Neuropsychologia, Neuroscience, Oxford University Press, PLOS ONE, Princeton University Press, Proceedings of the National Academy of Sciences (PNAS), Psychiatry Research, Psychological Research, Psychological Science, Psychonomic Bulletin & Review, Quarterly Journal of Experimental Psychology, Vision, Worth Publishers

Grant review panels

American Psychological Association (APA), German-Israel Foundation for Scientific Research & Development, Israel Science Foundation, MCW Clinical & Translational Research Institute, NIH Mechanisms of Sensory, Perceptual, & Cognitive Processes (SPC; ad hoc), National Science Foundation (NSF)

Mentoring experience

2019- Dissertation committee of Wesley Richerson (Marquette/MCW BME)
 2019- Dissertation committee of Reshma James (UWM Kinesiology)
 2018-2019 Undergraduate Honors Thesis of Cassy Doolittle (UWM Psychology)
 2017- Dissertation committee (chair) of Adam Barnas (UWM Neuroscience)
 2017- Dissertation committee of Nooshin Fesharaki (UWM Kinesiology)
 2017- Dissertation committee of Lauren Hopkins (UWM Neuroscience)
 2016-2017 Dissertation committee of Elaine Mahoney (UWM Clinical Psychology)
 2016-2017 Dissertation committee of Walker Pedersen (UWM Neuroscience)
 2015- Dissertation committee of Laurel Watkins de Jong (UWM Neuroscience)
 2014-2017 Dissertation committee of Laura Korthauer (UWM Neuroscience)
 2014- Dissertation committee of Joshua Hoelter (UWM Neuroscience)
 2013-2015 Dissertation committee of Daniel Stout (UWM Clinical Psychology)
 2013-2015 Dissertation committee of Emily Belleau (UWM Clinical Psychology)
 2013-2015 Master's Thesis committee of Tara Miskovich (UWM Clinical Psychology)

Teaching Experience

University of Wisconsin-Milwaukee, Dept. of Psychology:

2018 *Instructor*, Research in Honors (Honors 686)
 2017-2019 *Instructor*, Perceptual Processes (PSYCH 623)
 2013-2019 *Instructor*, Perception (PSYCH 503)
 2013-2018 *Organizer*, Neuroimaging Journal Club (*Co-Organizer*, 2013-2015)
 2015-2017 *Instructor*, Seminar in Neuroscience (PSYCH/BIOSCI 933)
 2014-2017 *Organizer*, Neuronal Control & Interference Journal Club

Guest Lecturer:

Biology of Vision (MCW; Spr, 2018), Instructor: Daniel Lipinski
 Visual Cognition (Spr, 2014), Instructor: Debbie Hannula
 Biological Psychology Proseminar (2013-2018), Instructor: Fred Helmstetter

Carnegie Mellon University, Dept. of Psychology/Ctr for the Neural Basis of Cognition:

2010-2013 *Co-organizer*, Neuroimaging Journal Club, CNBC

Guest Lecturer:

Statistical Models of the Brain (Spr, 2013), Instructor: Rob Kass
 Research Methods in Cogn. Psych. (Spr, 2012/2013), Instr: Laurie Heller
 Cognitive Neuropsychology (Spr, 2012), Instructor: Marlene Behrmann
 Visual Cognition (Spr, 2012), Instructor: David Plaut
 Mapping Brain Connectivity (Spr, 2012), Instructor: Walter Schneider
 Multimodal Neuroimaging Training Program (Summer 2011/2013)

Johns Hopkins University, Dept. of Psychological & Brain Sciences:

Fall, 2006 *Instructor*, Laboratory in the Analysis of Psychological Data
 2006-2009 *Co-organizer*, Functional Neuroimaging Graduate Seminar
 2004-2008 *Guest Lecturer & Teaching Assistant*:
 Sensation & Perception, Instructor: Steven Yantis
 Multivariate Statistical Methods, Instructor: Steven Yantis
 Advanced Statistical Methods, Instructor: Amy Shelton
 Sleep, Dreams, & Consciousness, Instructor: Richard Allen
 Animal Behavior, Instructor: Gregory Ball
 Human Sexuality, Instructor: Chris Kraft
 Law & Psychology, Instructor: Laurence Raifman

Baltimore Polytechnic Institute High School:

2006-2009 *Lecturer*, Brain Awareness Week, Brain Myths presentation

Academic Service

2019- SURF grant review panel, UWM Office of Undergraduate Research
 2019- Team Science grant review panel, UWM Graduate School
 2018-2021 Member, Review Committee, The Psychonomic Society
 2017- Alumni Relations & Dev't Committee (Chair, 2017-18), UWM Psychology
 2017-2018 Member, Clinical Psychology Search Committee, UWM Psychology
 2017 Nanosymposium Chair (Functional Basis of Attention), SfN Conference
 2016- Member, UWM Institutional Review Board
 2016-2017 Chair, Research Participation Committee (SONA), UWM Psychology
 2016-2018 UWM "Go Milwaukee", Psychology Lab Tours
 2015- Member (Chair 2015-17), Colloquium Committee, UWM Psychology
 2015- Member, Space Committee, UWM Psychology
 2014- Member, Technology Committee, UWM Psychology
 2014- Member, Assessment Sub-Committee, UWM Psychology
 2014-2018 Organizer, Neuroscience Interview Day, UWM Psychology
 2014-2016 UWM Meet Milwaukee, Neuroscience Lab Tours
 Sum, 2014 UWM Upward Bound Math & Science, Neuroscience Lab Tours
 2013-2014 Member, Behavior Analysis Search Committee, UWM Psychology
 2011-2013 Postdoctoral Liaison, Center for the Neural Basis of Cognition, CMU
 2008-2009 Mentor, Graduate Student Mentoring Program, Johns Hopkins University
 2005-2006 Colloquium Committee, Psychol. & Brain Sciences, Johns Hopkins Univ
 2002 Session Co-Chair (Physics, Methods, & Signals), fMRI Experience IV Conf
 2001 Session Chair (Medical Imaging), Southern Biomedical Engineering Conf
 1999-2001 Dean's Graduate Council, University of Alabama at Birmingham