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## Ryan E.B. Mruczek, Ph.D.

1 College Street  
College of the Holy Cross  
Worcester, MA 01610

508.793.2328  
[rmruczek@holycross.edu](mailto:rmruczek@holycross.edu)  
[webpage](#)

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### Academic Employment

<b>Assistant Professor</b>	2018-present
Department of Psychology, College of the Holy Cross, Worcester, MA	
<b>Assistant Professor</b>	2014-2018
Department of Psychology, Worcester State University, Worcester, MA	
<b>Research Scientist</b> ( <i>part-time</i> )	2014-2016
Department of Psychology, University of Nevada - Reno, Reno, NV	
Sponsor: Dr. Marian Berryhill	
<b>Research Scientist</b>	2013-2014
Department of Psychology, University of Nevada - Reno, Reno, NV	
Sponsor: Dr. Gideon Caplovitz	
<b>Visiting Assistant Professor</b>	2012-2013 & Spring 2014
Department of Psychology, Swarthmore College, Swarthmore, PA	
<b>Postdoctoral Research Fellow</b>	2008-2012
Department of Psychology and Neuroscience Institute, Princeton University, Princeton, NJ	
Sponsor: Dr. Sabine Kastner	

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### Education

<b>Ph.D., Neuroscience</b>	March 2007
Brown University, Providence, RI	
Dissertation Advisor: Dr. David L. Sheinberg	
Dissertation Title: "Neural correlates of efficient visual search"	
<b>B.S., Biological Science: Neuroscience</b>	May 2001
University of Rochester, Rochester, NY	
Research Advisor: Dr. Mary Hayhoe	

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### Awards, Honors, Grants, and Fellowships

3 <sup>rd</sup> Place, Best Illusion of the Year	Neural Correlate Society	2019
Summer Undergraduate Research Grant	Worcester State Foundation	2017
Nominated, Alden Teaching Award	Worcester State University	2016
Psi Chi	Worcester State University	2015
Winner, Illusion of the Year	Satellite of Vision Science Society	2014
Top 10 Finalist, Illusion of the Year	Satellite of Vision Science Society	2013
National Research Service Award	NINDS, NIH	2009-2012
Neuroscience Training Grant	Brown University	2001-2003

Graduated Magna Cum Laude	University of Rochester	2001
Phi Beta Kappa	University of Rochester	2001
Golden Key National Honors Society	University of Rochester	2000
Summer Undergraduate Research Fellow	University of Rochester Center for Visual Science Research Advisor: Dr. Mary Hayhoe	2000

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## Teaching

### Courses

#### **College of the Holy Cross**

Cognitive Neuroscience (PSYC 235)	S19, Sum21*
Introduction to Neuroscience (CISS 110)	F18, F19, F20*
Predictive Coding in the Brain (PSYC 399)	S21*
Research in Human Neuroscience (PSYC 399)	S19
Sensation and Perception (PSYC 299)	F20*, S21*
Statistics (PSYC 200)	F18, F19

\*online due to Covid-19

#### **Worcester State University**

Brain & Behavior (PS 230)	S18
Psychological Statistics (PS 275)	S16, F16, S17, S18
Sensation and Perception (PS 280)	F15, F16, F17
Research Methods (PS 276)	F14, S15, F15, S16, Sum16, Sum17, F17
Physiological Psychology (PS 380)	F14, S15, S16, S17

#### **Swarthmore College**

Research Design and Analysis (PSYC 205)	S13, S14
Seminar in Cognitive Neuroscience (PSYC 131)	S13
Cognitive Neuroscience (PSYC 031)	F14
Functional Magnetic Resonance Imaging (fMRI) (PSYC 045)	F12
Ethical Considerations in Psychological Research (PSYC 001 Module)	F12, S13

#### **Princeton University**

Introductory Laboratory Course in Neuroscience: fMRI Module	S10, S11, S12
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#### **Brown University**

The Brain: From Neurons to Behavior (BN 901-3A)	Sum06
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### Selected Guest Lectures

Apraxia: Tool-Specific Information in the Human Intraparietal Sulcus Introduction to Clinical Neuropsychology, Dept. of Psychology, Princeton University	F11
The Neural Basis of Visual Attention Brain Imaging and Applications, CODDE, Great Malvern, UK	Sum10

### Workshops/Mini-Courses Attended and Certificates

DEI in STEM Reading/Discussion/Working Group, College of the Holy Cross	Sum 20
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*Self-organized, ad hoc group to discuss readings about Diversity, Equity, and Inclusion (DEI) in STEM, work on DEI statements, and pursue other action items.*

Designing Engaging Online and Hybrid Learning, Centreity and College of the Holy Cross	Aug 20
Common Area Requirements Workshop, College of the Holy Cross	Aug 19
Course Development Faculty Fellowship, College of the Holy Cross New Course Development, Neuroscience with Physics	Sum 19
Hewlett-Mellon Workshops, College of the Holy Cross Collaborative 100-level STEM Concept Mapping and Exploration of STEM for Passport	Sum 19
Establishing Boundaries: Promoting Healthy Adult-Student Relationships, College of the Holy Cross	May 19
Massachusetts Project Kaleidoscope (PKAL) Regional Network Meeting	Jan 19
New Faculty Orientation Series, College of the Holy Cross Myths and Facts of the Tenure Process; Advising and Mentoring Students; Office of Sponsored Research Open House; Workshop Series on Ignatian Pedagogy #1, 2, & 4	F18-S19
Course Development Faculty Fellowship, College of the Holy Cross Dev of Integrative Science Learning Modules through the Neuro Curriculum	Sum 19
Hewlett-Mellon Workshops, College of the Holy Cross Psychology Departmental Workshop to Establish Hiring Priorities	Sum 18
Dev of Integrative Science Learning Modules through the Neuro Curriculum	Sum 18
Center for Teaching and Learning, Worcester State University Summer Institute	2015, 2017
Winter Institute	2016
Sharing Approaches that Facilitate Improvement in Student Writing	2015
Creating Rubrics	2014
Creating a Syllabus with Student Learning Outcomes	2014
The McGraw Center for Teaching and Learning, Princeton University Applying the Science and Research on Learning to Lecturing	2010
Designing a Course	2009
Teaching College Science: 3-Session Workshop	2009
The Harriet W. Sheridan Center for Teaching and Learning, Brown University Teaching Certificate III: Professional Development Seminar	2005
Teaching Certificate II: The Classroom Tools Seminar	2005
Teaching Certificate I: The Sheridan Teaching Seminar	2003

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## Student Advising and Mentoring

### Undergraduate Research Advisor

<b>Kyle Lefler</b>	Fall 2020-Spring 2021
Student Researcher, College of the Holy Cross Spring 2021: PSYC 480 Visual Neuroscience Research (Research for Credit) Project Title: "Comparison of image familiarity effects on deep neural networks and the primate visual system"	
<b>Sean Kelly</b>	Summer 2019-Spring 2021
Student Researcher, College of the Holy Cross	

Fall 2020: PSYC 480 Visual Neuroscience Research (Research for Credit)  
 2019 Weiss Summer Research Program, College of the Holy Cross  
 Project Title: “Comparison of decoding of visual-evoked potentials from tri-polar and conventional EEG”

**Matthew Fanelli** Spring 2019-Spring 2021

Student Researcher, College of the Holy Cross  
 Fall 2020: PSYC 480 Visual Neuroscience Research (Research for Credit)  
 2019 Weiss Summer Research Program, College of the Holy Cross  
 Project Title: “Visual illusions of size and speed”

**Abigail Sagona** Summer 2019-December 2019

Student Researcher, College of the Holy Cross  
 2019 Weiss Summer Research Program, College of the Holy Cross  
 Project Title: “Changes in visual processing signals with familiar and novel objects”

**Ashley Emery** Spring 2018

Independent Study Student, Worcester State University  
 Project Title: “Physiological measures of anxiety induced by visual and auditory stimuli”

**Amalia Davis** Spring 2017-2018

Independent Study Student, Worcester State University  
 2017 Summer Research Fellowship, Worcester State University  
 Project Title: “Effects of visual experience on feedforward and feedback processing in the primate visual system”

**Kyle Cullen** Spring 2016

Independent Study Student, Worcester State University  
 Project Title: “Effects of motion dynamics on visual illusions and size perception”

**Danielle A. Courtemanche** Spring 2015

Independent Study Student, Worcester State University  
 Project Title: “Psychophysical investigations of visual size perception”

#### Undergraduate Thesis Advisor

**Isabell von Loga** 2011

Undergraduate Senior Research Thesis (Postdoctoral Advisor), Princeton University  
 Thesis Title: “Object selectivity and tool-related activity in topographically and non-topographically organized areas of human parietal cortex: an fMRI study”

**Charlton Otte** Spring 2013

Neuroscience Senior Thesis 2<sup>nd</sup> Reader, Swarthmore College  
 Thesis Title: “*Drosophila melanogaster* mushroom bodies: their role in expression of short-term chemosensory-mediated and visually-mediated courtship-conditioned associative memories”

**Steve Selverian** Spring 2013

Neuroscience Senior Thesis 2<sup>nd</sup> Reader, Swarthmore College  
 Thesis Title: “Short-term chemosensory-mediated memory deficits in *Drosophila melanogaster* with targeted mushroom body inactivation”

#### Doctoral Thesis Committee (Outside Reader)

**Gennadiy Gurariy** 2016-2017

Doctoral Thesis Outside Committee Member, University of Nevada Reno

Thesis Title: “Electrophysiological correlates of motor plans and graspability via dorsal/ventral interactions”

**Christopher D. Blair**

2014-2015

Doctoral Thesis Outside Committee Member, University of Nevada Reno

Thesis Title: “Decoding the neural representation of size using multivariate pattern analyses and high-density electroencephalography”

Masters Thesis Committee (Outside Reader)

**Lauren Gregg**

2020-2021

Masters Thesis Outside Committee Member, University of Nevada Reno

Thesis Title: The effects of motion on perceived size and other perceptual processes”

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## Publications, Abstracts, and Presentations

## Indicates undergraduate student co-author (Holy Cross students underlined)

\*\* Indicates graduate student co-author

### Peer Reviewed Journal Articles

- [1] Cerreta, AGB<sup>\*\*</sup>, **Mruczek, REB** & Berryhill, ME (2020). Predicting Immediate and Longitudinal Working Memory Benefits from tDCS Using Resting-State fMRI. *Frontiers in Psychology*, 11:570030. <https://doi.org/10.3389/fpsyg.2020.570030>
- [2] **Mruczek, REB**, Blair, CD, Cullen, K<sup>##</sup> & Caplovitz, GP (2020). Opposite effects of motion dynamics on the Ebbinghaus and Corridor illusions. *Attention, Perception & Psychophysics*, 82(4): 1912-1927. <https://doi.org/10.3758/s13414-019-01927-w>
- [3] **Mruczek REB**, Killebrew K<sup>\*\*</sup> & Berryhill ME (2018). Individual differences in mixed-category effects during a visual working memory task. *Neuropsychologia*, 122:1-10. <https://doi.org/10.1016/j.neuropsychologia.2018.12.005>
- [4] Erlikhman G, Gurariy G<sup>\*\*</sup>, **Mruczek REB** & Caplovitz GP (2016). The neural representation of objects formed through the spatiotemporal integration of visual transients. *NeuroImage*, 149: 67-78. <https://doi.org/10.1016/j.neuroimage.2016.03.044>
- [5] Killebrew K<sup>\*\*</sup>, **Mruczek REB** & Berryhill ME (2015). Intraparietal regions play a material general role in working memory: Evidence supporting an internal attentional role. *Neuropsychologia*, 73: 12-24. <https://doi.org/10.1016/j.neuropsychologia.2015.04.032>
- [6] Arcaro MJ, Honey CJ, **Mruczek REB**, Kastner S & Hasson U (2015). Widespread correlation patterns of fMRI signal across visual cortex reflect eccentricity organization. *eLife*, 4:e03952.
- [7] **Mruczek REB**, Blair CD<sup>\*\*</sup>, Strother L & Caplovitz GP (2015). The Dynamic Ebbinghaus: motion dynamics greatly enhance the classic contextual size illusion. *Frontiers in Human Neuroscience*, 9:77. <https://doi.org/10.3389/fnhum.2015.00077>
- [8] Wang L<sup>+</sup>, **Mruczek REB**<sup>+</sup>, Arcaro MJ & Kastner S (2015). Probabilistic maps of visual topography in human cortex. *Cerebral Cortex*, 25(10): 3911-3931. <https://doi.org/10.1093/cercor/bhu277> (+ authors contributed equally)
- [9] **Mruczek REB**, Blair CD<sup>\*\*</sup> & Caplovitz GP (2014). Dynamic Illusory Size Contrast: A relative-size illusion modulated by stimulus motion and eye movements. *Journal of Vision*, 14(3):2:1-15. <https://doi.org/10.1167/14.3.2>
- [10] **Mruczek REB**, von Loga IS<sup>##</sup> & Kastner S (2013). The representation of tool and non-tool object information in the human intraparietal sulcus. *Journal of Neurophysiology*, 109(12): 2883-2896. <https://doi.org/10.1152/jn.00658.2012>

- [11] Konen CS, **Mruczek REB**, Montoya JL<sup>##</sup> & Kastner S (2013). Functional organization of human posterior parietal cortex: grasping- and reaching-related activations relative to topographically organized cortex. *Journal of Neurophysiology*, *109*(12): 2897-2908. <https://doi.org/10.1152/jn.00657.2012>
- [12] **Mruczek REB** & Sheinberg DL (2012). Stimulus selectivity and response latency in putative inhibitory and excitatory neurons of the primate inferior temporal cortex. *Journal of Neurophysiology*, *108*: 2725–2736. <https://doi.org/10.1152/jn.00618.2012>
- [13] Anderson B<sup>+</sup>, **Mruczek REB**<sup>+</sup>, Kawasaki K & Sheinberg DL (2008). Effects of familiarity on neural activity in monkey inferior temporal lobe. *Cerebral Cortex*, *18*(11): 2540-2552. <https://doi.org/10.1093/cercor/bhn015> (+ authors contributed equally)
- [14] **Mruczek REB** & Sheinberg DL (2007b). Context familiarity enhances target processing by inferior temporal cortex neurons. *Journal of Neuroscience*, *27*: 8533-8545. <https://doi.org/10.1523/JNEUROSCI.2106-07.2007>
- [15] **Mruczek REB** & Sheinberg DL (2007a). Activity in inferior temporal cortical neurons predicts recognition choice behavior and recognition time during visual search. *Journal of Neuroscience*, *27*: 2760:2780. <https://doi.org/10.1523/JNEUROSCI.4102-06.2007>
- [16] Sheinberg DL, Peissig JJ, Kawasaki K & **Mruczek REB** (2006). Initial saccades predict manual recognition choice in the monkey. *Vision Research*, *46*: 3812-3822. <https://doi.org/10.1016/j.visres.2006.06.009>
- [17] **Mruczek REB** & Sheinberg DL (2005). Distractor familiarity leads to more efficient visual search for complex stimuli. *Perception and Psychophysics*, *67*(6): 1016-1031. <https://doi.org/10.3758/bf03193628>
- [18] Aivar MP, Hayhoe MM, Chizk CL & **Mruczek REB** (2005). Spatial memory and saccadic targeting in a natural task. *Journal of Vision*, *5*(3): 177-193. <https://doi.org/10.1167/5.3.3>
- [19] Hayhoe MM, Shrizastaza A, **Mruczek R** & Pelz JB (2003). Visual memory and motor planning in a natural task. *Journal of Vision*, *3*(1):49-63. <https://doi.org/10.1167/3.1.6>
- [20] Hayhoe M, Karn K, Magnuson J, & **Mruczek R** (2001). Spatial representations across fixations for saccadic targeting. *Psychologica Belgica*, *41*(1-2): 55-74. <https://psycnet.apa.org/record/2001-05728-003>

#### Review Articles and Chapters

- [1] Lytchenko T<sup>\*\*</sup>, Seekins, M<sup>##</sup>, Huntamer, S<sup>##</sup>, White, T<sup>##</sup>, Caplovitz GP & **Mruczek, REB** (*in press, available upon request*). Attention: Your Neural Superpower. *Frontiers for Young Minds*.
- [2] Basu AC, Hill AS, Isaacs, AK, Mondoux MA, **Mruczek REB**, & Narita T (2021). Integrative STEM Education for Undergraduate Neuroscience: Design and Implementation. *Neuroscience Letters*, *746*: 135660. <https://doi.org/10.1016/j.neulet.2021.135660>
- [3] Kastner S, Chen Q, Jeong SK & **Mruczek REB** (2017). A brief comparative review of primate posterior parietal cortex: a novel hypothesis on the human toolmaker. *Neuropsychologia*, *105*: 123-134. <https://doi.org/10.1016/j.neuropsychologia.2017.01.034>
- [4] **Mruczek REB**, Blair CD<sup>\*\*</sup>, Strother L & Caplovitz GP (2017b). Size contrast and assimilation in the Delboeuf and Ebbinghaus illusions. In AG Shaprio & D Todorovic (Eds.), *Oxford Compendium of Visual Illusions* (pp. 262-268). New York, New York: Oxford University Press. <https://psycnet.apa.org/record/2017-30827-028>
- [5] **Mruczek REB**, Blair CD<sup>\*\*</sup>, Strother L & Caplovitz GP (2017a). Dynamic Illusory Size Contrast: enhanced relative size effects due to stimulus motion. In AG Shaprio & D Todorovic (Eds.), *Oxford Compendium of Visual Illusions* (pp. 258-261). New York, New York: Oxford University Press. <https://psycnet.apa.org/record/2017-30827-027>

- [6] Hayhoe M, Aivar P, Shrizastaza A & **Mruczek R** (2002). Visual short-term memory and motor planning. *Progress in Brain Research*, 140: 349-363. [https://doi.org/10.1016/S0079-6123\(02\)40062-3](https://doi.org/10.1016/S0079-6123(02)40062-3)

#### Commentary

- [1] Peelen MV<sup>+</sup> & **Mruczek REB**<sup>+</sup> (2008). Sources of Spatial and Feature-Based Attention in the Human Brain. *Journal of Neuroscience*, 28: 9328-9329. <https://doi.org/10.1523/JNEUROSCI.3562-08.2008> (\* authors contributed equally)

#### Conference Presentations

- [1] **Mruczek REB** & Caplovitz GP (2016). Individual differences in the effects of motion on classic size illusions. *Individual Differences in Vision Brown Bag Satellite Event at Vision Science Society*, 2016.
- [2] **Mruczek REB**, Blair, CD<sup>\*\*</sup> & Caplovitz GP (2014). Dynamic Illusory Size-Contrast: A relative-size illusion modulated by stimulus motion and eye movements. *Vision Science Society*, 2014.
- [3] **Mruczek REB** & Sheinberg DL (2006). Effects of experience on receptive field size in monkey inferior temporal cortex. *Society for Neuroscience*, 2006.
- [4] **Mruczek REB** & Sheinberg DL (2006). Recognition choice behavior is predicted by activity in inferior temporal cortex. *Vision Science Society*, 2006.

#### Conference Posters

- [1] **Mruczek REB** & Caplovitz GP (2021). The Orbiting Circles Illusion: Induced changes in the length and direction of motion trajectory. *Virtual Vision Sciences Society 2021*. (conference held in a virtual, online format due to Covid-19)
- [2] Kelly S<sup>##</sup>, Wise MV<sup>\*\*</sup>, Foster, G<sup>##</sup> Peterson E<sup>##</sup>, **Mruczek REB**, Crognale MA & Caplovitz GP (2021). Comparison of decoding of visual-evoked potentials from tri-polar and conventional EEG. *Virtual Vision Sciences Society 2021*. (conference held in a virtual, online format due to Covid-19)
- [3] **Mruczek REB**, Kelly S<sup>##</sup>, Sagona A<sup>##</sup>, Fanelli M<sup>##</sup> & Caplovitz GP (2020). Effects of motion dynamics on classic visual size illusions. *Virtual Vision Sciences Society 2020*. (conference moved to a virtual, online format due to Covid-19)
- [4] **Mruczek, REB** (2020). Novel objects in a rapid serial visual presentation (RSVP) stream elicit an attentional blink. *Virtual Cognitive Neuroscience Society 2020*. (conference moved to a virtual, online format due to Covid-19)
- [5] **Mruczek REB**, Davis AK<sup>##</sup>, Sheinberg DL (2018). Local field potential recordings reveal enhanced feedback in the primate visual system for familiar compared to novel objects. *Cognitive Neuroscience Society 2018*.
- [6] Cerreta, A<sup>\*\*</sup>, **Mruczek, R.** & Berryhill, M.E. (2017). Predicting Individual tDCS-Linked Working Memory Benefits Through Resting-State fMRI. *Cognitive Neuroscience Society 2017*.
- [7] Caplovitz GP, Erlichman G, Gurariy G<sup>\*\*</sup> & **Mruczek REB** (2016). The neural representation of objects formed through the spatiotemporal integration of visual transients. *Cognitive Neuroscience Society*, 2016.
- [8] **Mruczek REB**, Blair CD, Cullen, K<sup>##</sup>, Killebrew K<sup>\*\*</sup>, Aguzzi A<sup>##</sup> & Caplovitz GP (2016). The effects of motion dynamics on the Ebbinghaus and Corridor illusions. *Vision Science Society*, 2016.
- [9] Killebrew K<sup>\*\*</sup>, **Mruczek REB** & Berryhill ME (2016). A stimulus biased contralateral bias in intraparietal sulcus. *Vision Science Society*, 2016.

- [10] Cullen, K<sup>##</sup> & **Mruczek REB** (2015). Opposite effects of motion on size perception in the Ebbinghaus and Corridor illusions. *Worcester State University Celebration of Scholarship and Creativity, 2016*.
- [11] Courtemanche, D<sup>##</sup> & **Mruczek REB** (2015). The effects of motion dynamics on the Ebbinghaus and Corridor illusions. *Worcester State University Celebration of Scholarship and Creativity, 2015*.
- [12] Blair CD<sup>\*\*</sup>, **Mruczek REB** & Caplovitz GP (2015). Decoding the neural representation of size using multivariate pattern analyses and high-density electroencephalography. *Vision Science Society, 2015*.
- [13] Wang L, **Mruczek REB**, Arcaro MJ & Kastner S (2012). Visual topographic probability maps (VTPM) in standard MNI space. *Society for Neuroscience, 2012*.
- [14] Arcaro MJ, **Mruczek REB**, Honey CJ, Hasson U & Kastner S (2012). Functional connectivity MRI during resting state and movie viewing reveals large-scale eccentricity organization throughout the visual system. *Society for Neuroscience, 2012*.
- [15] **Mruczek REB**, von Loga IS<sup>##</sup>, Shariat Torbaghan S & Kastner S (2011). Tool-specific information in the human intraparietal sulcus. *Society for Neuroscience, 2011*.
- [16] **Mruczek REB**, von Loga IS<sup>##</sup>, Konen CS & Kastner S (2011). Object information in the anterior regions of the intraparietal sulcus. *Vision Sciences Society, 2011*.
- [17] **Mruczek REB** & Kastner S (2010). A comparison of object representations in the human ventral and dorsal visual pathways. *Society for Neuroscience, 2010*.
- [18] **Mruczek REB**, Peelen MV & Kastner S (2009). Non-spatial feature selectivity in human intraparietal sulcus during feature-based attention. *Society for Neuroscience, 2009*.
- [19] Kung C-C, **Mruczek REB** & Kastner S (2009). Using signal detection theory to probe the perceptual functions of human lateral geniculate nucleus: an fMRI study. *Organization for Human Brain Mapping, 2009*.
- [20] **Mruczek REB** & Sheinberg DL (2008). Functional properties of putative inhibitory and excitatory neurons in primate inferior temporal cortex. *Society for Neuroscience, 2008*.
- [21] Sheinberg DL, **Mruczek REB**, Anderson B & Kawasaki K (2006). Effects of long-term image familiarity in monkey temporal cortex. *Vision Science Society Abstract, 2006*.
- [22] Shrivastava A, Hayhoe MM, Pelz JB & **Mruczek REB** (2005). Influence of optic flow field restrictions and fog on perception of speed in a virtual driving environment. *Vision Science Society Abstract, 2005*.
- [23] **Mruczek REB** & Sheinberg DL (2002). The effects of distractor familiarity on visual search using complex images. *Society for Neuroscience, 2002*.
- [24] Hayhoe M, Aivar P, **Mruczek R** & Chizk C (2001). Memory for spatial structure in saccadic targeting. *Vision Science Society Abstract, 2001*.

#### Invited Talks

- [1] Physics, Physiology, and Psychology of Color Vision. (Summer 2019) *Summer Research Lunch Seminar Series, College of the Holy Cross*
- [2] Barriers to Informed Decisions: Cognitive and Neural Perspectives (co-presenter with Dr. Steven Oliver and Dr. Benjamin Jee). (Summer 2017) *Center for Teaching & Learning Summer Institute, Worcester State University*.
- [3] Neural correlates of visual size perception. (Spring 2016) *Schaffer Family Seminar Series, Department of Biology, College of the Holy Cross*.



- [4] Tool-specific information in the human intraparietal sulcus. (Nov 2011) *Imaging Meeting Research Talk, Princeton Neuroscience Institute, Princeton University.*
- [5] Object representations in the dorsal visual stream. (Feb 2010) *In-House Seminar Series, Princeton Neuroscience Institute, Princeton University.*
- [6] Activity in inferior temporal cortex predicts recognition choice behavior during visual search. (Feb 2006) *Brain Lunch, Department of Brain and Cognitive Science, MIT.*
- [7] Activity in inferior temporal cortex predicts recognition behavior during visual search. (Jan 2006) *In-House Seminar Series, Department of Neuroscience, Brown University.*

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## Service

### Department of Psychology Service (current institution)

Psychology Dept Liaison for Academic Conference	F20-S21
Animal Behavior and Cognition Tenure-Track Search Committee	S18-F19
Psi Chi Advisor	F19-present
Psychology Dept Library Liaison	S19-F19
Psychology Dept Graduate Studies and Careers Committee	F18-F19
Psychology Dept Hiring Priorities: Socio-Emotional Development Sub-Committee College of the Holy Cross ( <i>all above</i> )	F18-S19

### College Service (current institution)

Committee on Academic Programs	F20-present
Neuroscience Program Liaison for Psychology	F18-present
Gateways Summer Advising College of the Holy Cross ( <i>all above</i> )	Sum19, Sum 20, Sum 21

### Department and Institutional Service (previous institutions)

University Curriculum Committee	2015-17, 2017-18 (Sub-Committee Chair)
Pre-Medical Advisory Committee	2016-18
Psychobiology Minor Committee	2014-18
Psychology Dept Program Review Committee	2015-16
Psychology Dept Curriculum Committee	2015-18
Psychology Dept Catalog Committee (ad hoc)	Spring 2017 (Chair)
Psychology Dept Research Methods Committee	2014-15, 2016 (Co-Chair), 2017-18 (Chair)
Web Committee	2014, 2015-2018 (Chair)
Advising Committee Worcester State University ( <i>all above</i> )	2015-16
Co-organizer, In-house Seminar Series, Princeton Neuroscience Institute Princeton University ( <i>all above</i> )	2010
Graduate Student Representative and Admissions Committee Member	2005-06

Graduate Student Representative to Biomedical Faculty Council 2002-06  
Brown University (*all above*)

### Service to Profession

Website Committee, Faculty for Undergraduate Neuroscience (FUN) Feb 21-present  
Judge for Best Illusion of the Year Contest, Neural Correlates Society Nov 20  
Associate Editor, *Frontiers for Young Minds: Understanding Neuroscience* Sep 19-present  
Student Travel Award Application Reader, Faculty for Undergraduate Neuroscience Jan 19  
Poster Judge: Northeast Undergraduate/Graduate Research Organization for Neuroscience  
(NEURON) Conference Feb 19

Peer Review of Scientific Manuscripts

Attention, Perception, & Psychophysics	Sum19, F19, Sum20, F20, S21
Consciousness and Cognition	S19
Currents in Teaching and Learning	S15
Frontiers in Neuroscience	Sum19 (2)
Human Brain Mapping	S11
Journal of Neuroscience	S08, S09, F09(2), F12, S20, F20, S21
Journal of Neurophysiology	F12
Neuropsychologia	F10(2), S11, F11, S12
PLOS ONE	S19
Psychonomic Bulletin & Review	S21
Scientific Reports	S20

Professional Societies

Cognitive Neuroscience Society	2018, 2020
Faculty for Undergraduate Neuroscience (FUN)	2014-present
Society for Neuroscience	2002-03, 2005-06, 2008-12
Vision Sciences Society	2006, 2011, 2014, 2016, 2019-present
Western Massachusetts Chapter of the Society for Neuroscience	2019-present

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## Volunteer and Community Outreach

### **Neuroscience Demo & Neuroscience Information Table**

Women in Science Day 2019, Holy Cross S19

### **Mini Course: Computer Science with Scratch**

Mayo Elementary School (Holden, MA): Winter Enrichment Program W17, W18, W19

### **Guest Lesson: An Introduction to Your Brain**

Mountview Middle School (Holden, MA): 6<sup>th</sup> Grade Science Class F18

### **Youth Sports Coaching**

Holden Youth Soccer, K-2<sup>nd</sup>, 3<sup>rd</sup>/4<sup>th</sup> and 7<sup>th</sup>/8<sup>th</sup> grade programs (Holden, MA) F14-17, F18, F19  
Holden Baseball Program, Inc., T-ball, Junior Little League (Holden, MA) S16-17

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## References

*Available upon request.*

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