**René Marois, Ph.D.**

Position: Professor of Psychology

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**Appointments**

• Professor, Psychology Dept. Vanderbilt Univ. Fall 2012 -

• Associate Professor, Psychology Dept Vanderbilt Univ. Spring ‘06 - Spring ‘12

• Assistant Professor, Psychology Dept. Vanderbilt Univ. Fall 1999 - Fall 2005

• Postdoctoral Fellow, NMR Center, Yale Univ. Sch. Med.Spring‘97 - Spring ‘99

**Degrees Earned**

• Yale University, New Haven, CT, Ph.D. Neuroscience 1996

• Dalhousie University, Halifax, Canada, M.Sc. Psychology 1989

• McGill University, Montreal, Canada, B.Sc. Biology 1986

**Honors and fellowships**

• Member, MacArthur Foundation Law & Neuroscience project, 2008-2010

• Chancellor’s Award for Research 2005

• Jeffrey Nordhaus Award for outstanding undergraduate teaching 2004

• John F. Kennedy Center investigator 2000 - present

• Fonds FCAR (Quebec) Postgraduate Scholarship Fall 1991-Summer 1992

• NSERC (Canada) Postgraduate Scholarship Fall 1989-Summer 1991

• Dalhousie Fellowship Fall 1986-Summer 1988

**Professional Memberships**

• Association for Psychological Science

• Society for Neuroscience

• Cognitive Neuroscience Society

• Psychonomic Society

• International Brain Research Organization

• Organization for Human Brain Mapping

**Invited Presentations/Participant**

• Utrecht-Vanderbilt Joint Symposium in Cognitive Neuroscience, June 2014

• Southeastern Workers in Memory, Invited Speaker, Nashville TN, March 2014

• Psychology & Neuroscience Colloquium, Duke University, Durham, NC,

December 2013

• SFN Annual Convention, Symposium Presentation, San Diego, CA, November 2013

• 25th Attention & Performance Symposium, Presentation, Montreal, CA, July 2013

• APA Annual Convention, Symposium Presentation, Hawaii, HA, July 2013

• Neurology Grand Rounds, Vanderbilt Medical Center, March 2013

• Georgetown University, Dept of Psychology, Washington, DC, February 2013

• Kennedy Center, Vanderbilt University, Nashville, TN February 2013

• Duke Institute of Brain Sciences, Durham, NC, January 2013

• NAS NAKFI Digital World/Informed Brian Conference, Irvine, CA, November 2012

• Slide Session Chair, Society for Neuroscience annual meeting October 2012

• MacArthur Neurolaw Research Project, Boston, MA, September 2012

• Portland Workshop on Working Memory, Portland Oregon, August 2012

• Institute for Intelligent Systems, University of Memphis, February 2012

• Kickoff speaker, University School of Nashville, Evening Classes Program, Jan 2011

• Invited Speaker, Macquarie Center for Cognitive Science, Macquarie University,

Sydney, Australia, December 2010

• Keynote Speaker, Center for Perceptual and Cognitive Neurosciences Annual

Workshop, Department of Psychology, University of Queensland, Brisbane, Australia,

December 2010

• Invited Speaker, Rovereto Attention Workshop, Rovereto, Italy, October 2009

• Invited Speaker, Symposium on Visual Short-Term Memory and Attention,

International Congress of Psychology, Berlin, Germany, July 2008

• Invited Speaker, Symposium on the Neural Basis of Visual Short-Term Memory,

Cognitive Neuroscience Society, San Francisco, CA, April 2008

• Invited Participant, MacArthur Foundation Law & Neuroscience project, Vanderbilt

University. February 2008

• Invited Speaker, Nashville Inn of Court, November 2007

• Slide Session Chair, Society for Neuroscience annual meeting October 2007

• Invited Participant, MacArthur Foundation Law & Neuroscience project, University

California, Santa Barbara. September 2007

• Invited Speaker, Introduction to fMRI: Basics, Research Design and Analysis.

Vanderbilt Kennedy Center, Vanderbilt University, Nashville, TN. August 2007

**•** Academy Colloquium on “Blinks of the mind: New insights in temporal attention and

consciousness” Royal Netherlands Academy of Arts & Sciences, August 2007

• Brain & Cognition Colloquium, University of Illinois, Urbana-Champaign, November

2006

• Slide Session Chair, Society for Neuroscience annual meeting October 2006

• Perceptual Expertise Network, McGIll Univ., Montréal, Canada October 2005

• Yale University Dept. of Psychology-MR Imaging Research Center, New

Haven, CT, September 2005

• Montreal Neurological Institute, McGIll University, Montréal, Canada, June 2005

• Dept of Psychology, University of Montréal, Montréal, Canada, October 2004

• Invited speaker, Dual-Task Performance Conference, Ohlstadt, Germany,

February 26-29, 2004

• Center for the Study of Brain, Mind & Behavior, Princeton University, Princeton,

N.J., March 2003

• Vanderbilt University Institute of Imaging Science, February 2003

• 28th Interdisciplinary Conference, Jackson Hole, WY, Februrary 2003

• Invited participant, 20th International Symposium on Attention & Performance,

Erice, Sicily. July 2002

• Dept of Neurosciences, Brown University, Providence, RI. November 2001

• Alan Baddeley Colloquium, MRC Cognition & Brain Sciences Unit, Cambridge,

UK. June 2001

• Psychology Dept Colloquium, Chinese University of Hong Kong, Hong Kong.

May 2001

• Functional Imaging of Human Neural Development Meeting. New Orleans,

March 13-15, 2001

• Selected Slide Presentation, Human Brain Mapping Conference, Dusseldorf

Germany, June 1999

• Larval Biology Meeting, Harbor Branch Oceanographic Institution,

Fort Pierce, FL August 1995

**Teaching Experience**

**Course # Course Title**

PSY 285 Brain & Consciousness

HONS 183, PSY 285 Brain & Consciousness

PSY201 Neuroscience

NURO330 Cognitive Neuroscience

PSY316 Brain Imaging Methods

PSY358 Seminar in Neuroscience (*co-ordinator*)

PSY285 Neural Basis of Learning & Memory

PSY 344 Neurobiology of Attention

**Ad-hoc Reviewer**

***Journals***

• Archives of General Psychiatry

• Canadian Journal of Experimental Psychology

• Cerebral Cortex

• Cognition

• Cognitive and Affective Behavioral Neuroscience

• Cognitive Psychology

• Current Biology

• Experimental Brain Research

• Journal of Cognitive Neuroscience

• Journal of Neuroscience

• Journal of Experimental Psychology: General

• Journal of Experimental Psychology: Human Perception & Performance

• Nature

• Nature Neuroscience

• Neuroimage

• Neuron

• Perception & Psychophysics

• Public Library of Science (PLOS)

• Proceedings of the National Academy of Sciences

• Psychological Science

• Quarterly Journal of Experimental Psychology

• Trends in Cognitive Sciences

• Vision Research

***Granting agencies***

• National Science Foundation (NSF)

• NIH B/Start Applications

• Human Frontier Science Program Organization

• Spencer Foundation

• Alzheimer's Association.

**Extra-mural services**

• F12A Fellowship Review Panel member, 2009-2010

• NIH Special Emphasis Panel/Scientific Review Panel member 2012

**Research Grants**

• Sponsor: MacArthur foundation

Title: Brain Activity during Punishment decisions: Two next steps.

Award Period: November 2009 – June 2010

Direct Costs: $ 49, 967, Indirect Costs: $ 7,495

Role: Co-Investigator, Owen Jones (Vanderbilt Law School), PI.

• Sponsor: MacArthur foundation

Title: Juror Decisions about Mental States

Award Period: January 2009 – June 2010

Direct Costs: $ 8,600, Indirect Costs: $ 1,290

Role: Principal Investigator, Owen Jones (Vanderbilt Law School), co-PI.

• Sponsor: MacArthur foundation

Title: Neural Correlates of the Decision to Punish

Award Period: January 2009 – June 2010

Direct Costs: $ 7,000, Indirect Costs: $ 1,050

Role: Principal Investigator Owen Jones (Vanderbilt Law School), co-PI.

• Sponsor: Vanderbilt University central Discovery Grant Program

(Interdisciplinary Grant)

Title: Law and Brain Imaging

Award Period: January 2007 - July 2010

Direct Costs: $ 98,500

Role: Principal Co-Investigator. Owen Jones (Vanderbilt Law School), co-PI.

• National Institute of Mental Health, $1,590,650 (April 2004 – Feb 2010)

“Capacity Limits in Multi-Tasking” (MH70776)

• National Science Foundation, $453,218 July 2001- June 2005, “Attentional

Limits to Visual Perception” (NSF#0094992)

• National Institute of Health, $1,051,900 July 2003- June 2007, “Attention

and Neural Plasticity in Humans”

• Vanderbilt General Clinical Research Center. $10, 000, PI, July 2002- June

2003. "An fMRI Investigation of Human Visual Attention"

• Nicholas Hobbs Foundation, $10, 0000, July 2000 – June 2001, co-PI,

"Functional MRI & behavioral study of interactions between perceptual

expertise and attention"

• New Program Development, John F. Kennedy Center (P30 HD1505220),

$15, 000, July 2000 –June 2001, co-PI, “Functional MRI and Behavioral Studies

of the Interactions Between Perceptual Expertise and Attention”

**Articles in Refereed Journals**

Treadway MT, Buckholtz JW, Martin JW, Jan K, Asplund CL, Ginther MR, Jones

OD, & Marois R. (in press) Cortocolimbic Gating of Emotion-Driven

Punishment. Nat. Neurosci.

Han SW, Marois R. (in press) The effects of stimulus-driven competition and task

set on involuntary attention. *J. Vision*

Ginther, MR, Shen, FX, Bonnie, RJ, Hoffman, MB, Jones, OD, Marois, R &

Simons, KW. (in press) The Language of Mens Rea. Vanderbilt Law Review.

Han SW, Marois R. (2014). Functional fractionation of the stimulus-driven

attention network. J*. Neurosci*. **34**, 6958-6969.

Asplund, CL, Fougnie, DL, Zughni, S, Martin, J, & Marois, R (2014) The

attentional blink reveals the probabilistic nature of discrete conscious perception. *Psychol. Sci*. 25: 824-831.

Filmer, H, Mattingley J, Marois R, and Dux PE (2013) Disrupting prefrontal

cortex prevents performance gains from sensory-motor training. *J Neurosci*. 33: 18654-60

Jones, OJ, Marois, R., Farah, M, & Greely, H. (2013) Law and Neuroscience,

*J Neurosci.* 33: 17624-30

Tamber-Rosenau BJ, Dux PE, Tombu MN, Asplund CL, Marois R. (2013) Amodal

processing in human prefrontal cortex. *J Neurosci*. 33:11573-87.

Han SW, Marois R. (2013) The source of dual-task limitations: Serial or parallel

processing of multiple response selections? *Atten Percept Psychophys*. 75: 1395-1405.

Katwal, S.B., Gore, J.C., Marois, R, & Rogers, B.P. (2013) Unsupervised

Spatiotemporal Analysis of FMRI Data Using Graph-based Visualizations of Self-organizing Maps. *IEEE Transactions on Biomedical Engineering (TBME)*. 60: 2472-2483.

Han, S.W., & Marois, R. (2012) [Dissociation between process-based and data-based limitations for conscious perception in the human brain.](http://www.ncbi.nlm.nih.gov/pubmed/22982356) *Neuroimage*, 64: 399-406.

Buckholtz, J.W., & Marois R. (2012). [The roots of modern justice: cognitive and neural foundations of social norms and their enforcement.](http://www.ncbi.nlm.nih.gov/pubmed/22534578) *Nature Neurosci*ence 15: 655-61

Tombu, M.N, Asplund, C.L., Dux, P.E., Godwin, D, Martin, J.W., & Marois, R.

(2011). A unified attentional bottleneck in the human brain. *Proceedings of the National Academy of Sciences USA, 108:13426-13431.*

Fougnie, D.L., and Marois, R. (2011). What limits working memory capacity?

Evidence for modality-specific sources to the simultaneous storage of visual

and auditory arrays. *Journal of Experimental Psychology: Learning, Memory,*

*and Cognition*, 37:1329-1341.

Scalf, P., Dux, P.E., Marois, R. (2011). Working memory encoding delays top-

down attention to visual cortex. *J. Cogn. Neurosci*. *23:2593-2604.*

Shen, Francis X., Hoffman, Morris B., Jones, Owen D., Greene, Joshua D. and

Marois, Rene, *Flipping the Culpability Coin: Where the Model Penal Code*

*Fails Defendants*.  Forthcoming, New York University Law Review, Vol. 80 (2011) Available at: [http://ssrn.com/abstract=1746107](http://ssrn.com/abstract=1746107" \t "_blank)

Todd, J.J., Han, S.W., Harrison, S., & Marois, R. (2011). The neural correlates

of visual working memory encoding: A time-resolved fMRI study. *Neuropsychologia,* 49: 1527-1536*.*

Fougnie, D.L., Asplund, C. L., & Marois, R. (2010). What are the units of

storage in visual working memory? Journal of Vision, 10(12):27, 1–11,

http://www.journalofvision.org/content/10/12/27, doi:10.1167/10.12.27

Asplund, C. L., Todd, J. J., Snyder, A. P., Gilbert, C. M., & Marois, R. (2010).

Surprise-Induced Blindness: A Stimulus-Driven Attentional Limit to

Conscious Perception. *Journal of Experimental Psychology: Human*

*Perception and Performance*. 36(6):1372-1381.

Marois, R. (2010) Mind’s eye wide shut. *Trends in Cognitive Sciences* 14:433-

434*.*

Robitaille, N., Marois, R., Todd, J., Grimault, S., Cheyne, D., Jolicoeur, P. (2010)

Distinguishing between lateralized and non-lateralized brain activity associated

with visual short-term memory: fMRI, MEG, and EEG evidence from the same

observers. *Neuroimage* 53:1334-1345*.*

Harrison, A., Jolicoeur, P., & Marois, R. (2010). ‘What’ and ‘Where’ in the

Intraparietal Sulcus: An fMRI Study of Object Identity and Location in Visual

Short-Term Memory. *Cerebral Cortex* 20:2478-2485.

Asplund, C.L., Todd, J.J., Snyder, A.P., & Marois, R. (2010). A central role for

the lateral prefrontal cortex in goal-directed and stimulus-driven attention.

*Nature Neuroscience,* 13: 507-512*.*

Fougnie, D.L., & Marois, R. (2009). Dual-task interference in visual working

memory: A limitation in storage capacity but not in encoding or retrieval.

*Attention, Perception & Psychophysics*. 71: 1831-1841.

Dux, P.E., Tombu, M.N., Harrison, S., Rogers, B.P., Tong, F.,& Marois, R.

(2009). Training improves multitasking performance by increasing the speed of information processing in human prefrontal cortex. *Neuron*, 63: 127-138.

Ivanoff, J.I., Branning, P., & Marois, R. (2009). Mapping the pathways of

Information Processing from Sensation to Action in Four Distinct Sensorimotor

tasks. *Human Brain Mapping*, 30:4167-4186.

Dux, P.E., & Marois, R. (2009). How humans search for targets through time:

A review of data and theory from the attentional blink. *Attention, Perception, &*

*Psychophysics*, 71:1683-700.

Dux, P. E., Asplund, C. L., & Marois, R. (2009). Both exogenous and

endogenous target salience manipulations support resource depletion accounts

of the attentional blink: A reply to Olivers, Spalek, Kawahara & Di Lollo.

*Psychonomic Bulletin & Review*, 16, 219-224.

Fougnie, D., & Marois, R. (2009). Attentive tracking disrupts feature binding in

visual working memory. *Visual Cognition*, 17, 48-66.

Dux, P. E., & Marois, R. (2008). Distractor inhibition predicts individual

differences in the attentional blink. PLoS ONE, 3, e3330.

Buckholtz, J.W., Asplund, C.L., Dux, P., Zald, D.H., Gore, J.C., Jones, O.W., &

Marois, R. (2008). The Neural Correlates of Third-Party Punishment. *Neuron*,

30, 930-940.

Ivanoff J, Branning P, Marois R. (2008) fMRI evidence for a dual process account

of the speed-accuracy tradeoff in decision-making. *PLoS ONE*. Jul 9;

3(7):e2635

Dux, P. E., Asplund, C. L., & Marois, R. (2008). An attentional blink for

sequentially presented targets: Evidence in favor of resource depletion

accounts. *Psychonomic Bulletin & Review*, 15, 809-813.

Dux P, Marois R. (2007). Repetition Blindness is Immune to the Central

Bottleneck. *Psychonomic Bulletin Review* 14, 729-734.

Fougnie DL, Marois R. (2007). Executive Load in Working Memory Induces Inattentional Blindness. *Psychonomic Bulletin Review* 14, 142-147.

Dux P, Ivanoff, J., Asplund, C., & Marois R. (2006). Isolation of a central

bottleneck of information processing with time-resolved fMRI. *Neuron*, 52: 1109-1120.

Yi DJ , Kelley TA, Marois R, Chun MM. (2006). Attentional Modulation of Repetition Attenuation is Anatomically dissociable for scenes and faces. *Cognitive Brain Research,* 1080:53-62.

Fougnie DL, Marois R. (2006). Distinct Capacity Limits for Attention and

Working Memory.  Evidence from Attentive Tracking and Visual Working

Memory Paradigms. *Psychological Science*, 17:526-534.

Marois, R, Larson, JM, Chun MM, & Shima, D. (2006). Response-specific

sources of dual-task interference in human premotor cortex. *Psychological Research,* 70:436-447.

Todd JJ, Fougnie, DL, Marois R. (2005) Visual Short-Term Memory Load

Suppresses Right Temporo-Parietal Junction Activity and Induces Inattentional

Blindness*. Psychological Science,* 16:965-972*.*

Todd JJ, Marois R. (2005) Posterior Parietal Cortex Activity Predicts Individual Differences in Visual Short-Term Memory Capacity*. Cognitive, Affective & Behavioral Neuroscience,* 5:144-155*.*

Marois R, Ivanoff J. (2005) Capacity limits of Information processing in

the brain. *Trends in Cognitive Sciences,* 9:296-304.

Yi DJ, Woodman GF, Widders D, Marois R, Chun MM (2004) The neural representation of ignored visual events: Dissociable effects of perceptual attention and working memory attention. *Nature Neuroscience* 7:992-996*.*

Todd JJ, Marois R. (2004) The Capacity Limit of Visual Short-Term Memory in Human Posterior Parietal Cortex. *Nature* 428:751-753.

Marois R, Yi DJ, Chun, MM (2004) The neural fate of perceived and missed events in the attentional blink. *Neuron*. 41:465-472.

Marois R, Chun MM, Gore JC (2004) A common parieto-frontal network is recruited under both low visibility and high perceptual interference. *Journal of Neurophysiology* 92:2985-2992.

Schultz RT, Grelotti D, Klin A, KleinmanJ, Van der Gaag C, MaroisR, and

Skudlarski, P. (2003) The Role of the Fusiform Face Area in Social Cognition: Implications for the Pathobiology of Autism. *Philosophical Transactions of the Royal Society of London Series B: Biological Sciences*. 358:415-427.

Shafritz KM, Gore JC, Marois R (2002) The role of the parietal cortex in visual feature binding. *Proceedings National Academy Sciences USA* 99:10917-10922.

Palmeri, TJ, Blake, R, Marois, R, Flanery, M, Whetsell, W. (2002) The Perceptual Reality of Synesthetic Colors. *Proceedings National Academy Sciences USA* 99:4127-4131.

Anderson, A.W., Marois, R., Colson, E.R., Peterson, B.S., Duncan, C.C., Ehrenkranz, R.A., Schneider, K.C., Gore, J.C., & Ment, L.C. (2001). Neonatal Auditory Activation Detected by Functional Magnetic Resonance Imaging. *Magnetic Resonance Imaging* 19:1-5.

Marois R, Leung HC, Gore JC (2000) A stimulus-driven approach to object identity and location processing in the human brain. *Neuron* 25:717-728.

Marois R, Chun MM, Gore JC (2000) Neural Correlates of the Attentional Blink. *Neuron*, 28: 299-308.

Marois R, Carew TJ (1997) Fine structure of the apical ganglion and its serotonergic cells in the larva of *Aplysia californica*. Biol Bull 192:388-398.

Marois R, Carew TJ (1997) Projection patterns and target tissues of the serotonergic cells in larval *Aplysia californica*. J Comp Neurol 386:491-506.

Marois R, Carew TJ (1997) Ontogeny of serotonergic neurons in *Aplysia californica*. J Comp Neurol 386:477-490.

Marois R, Croll RP (1992) Development of serotonin-like immunoreactivity in the embryonic nervous system of the snail *Lymnaea stagnalis*. J Comp Neurol 322:255-265.

Marois R, Croll RP (1991) Hatching asynchrony within the egg mass of the pond snail, *Lymnaea stagnalis*. Invert. Reprod. Dev. 19:139-146.

**Review Articles, Book Chapters**

Buckholtz, J.W., Asplund, C.L., Dux, P., Zald, D.H., Gore, J.C., Jones, O.W., &

Marois, R. (2011) The Neural Correlates of Third-Party Punishment. *Neuron*,

30, 930-940. Law and Neuroscience, Current Legal Issues 2011, Vol. 13,

Freeman, M., Ed. Oxford University Press.

Jones, O.D., Buckholtz, J.W., Schall, J.D., Marois, R. (2009). Brain Imaging for

Legal Thinkers: A guide for the Perplexed. 2009 STAN. TECH. L. REV. 5

(<http://stlr.stanford.edu/pdf/jones-brain-imaging.pdf>)

Jolicœur, P., Dell'Acqua, R., Brisson, B., Robitaille, N., Sauvé, K., Leblanc, E.,

Prime, D., Grimault, S., Marois, R., Sessa, P., Grova, C., Lina, J.-M., &

Dubarry, A.-S. (2007). Visual spatial attention and visual short-term memory:

Electro-magnetic explorations of the mind. In V. Coltheart (Ed.), Tutorials in

visual cognition. Hove (UK): Psychology Press.

Marois, R. (2005) Two-timing attention. *Nature Neuroscience* 8:1285-1286.

Marois, R. (2005) The Neural Basis of the Attentional Blink. In Neurobiology of Attention. (Itti L, Rees G, Tsotsos L, Eds.), pp. 383-388*,* Academic Press/Elsevier.

Marois, R. (2005) Capacity Limits of Information Processing in the Human Brain. *Phi Kappa Phi Forum*, 85:30-33.

Blake, R., Palmeri, T.J., Marois, R., Kim, C.-Y. (2005) On the Perceptual Reality of Synesthetic Color. In Attention on Synesthesia: Cognition, Development, and Neuroscience (L.Robertson & N. Sagiv, Eds.). pp. 47-73, Oxford University Press.

Marois R. (2002) The cortical basis of motor planning: Does it take two to

tango? *Nature Neuroscience* 5;1254-1255.

Chun, M.M., Marois, R. (2002) The Dark Side of Attention. *Current Opinion in Neurobiology*. 12:184-189.

Stark, L.L., Marois, R., Emptage, N.J., Marcus, E.A. and T.J. Carew (1996). Central actions of serotonin across the lifespan of *Aplysia*: Implications for development and learning. In: Basic Neuroscience in Invertebrates, H.Koike, Y. Kidokoro, K. Takahashi and T. Kanaseki (eds), Japan Scientific Society Press, Tokyo.

Marcus, E.A., Emptage, N.J., Marois, R. and T.J. Carew (1994) A comparison of the mechanistic relationships between development and learning in *Aplysia*. *Progr. Brain Res*., 100:179-188.

Marois, R. and I.A. Meinertzhagen (1990) The visual system of flies: analysis of the number, specificity, plasticity, and phylogeny of identified synapses. In: Systems Approaches to Developmental Neurobiology, P.A. Raymond, S.S. Easter and G.M. Innocenti (eds.), Plenum Press, New York.

Marois, R. and T.J. Carew (1990) The gastropod nervous system in metamorphosis. *J. Neurobiol*. **21**:1053-1071.

**Conference Proceedings**

Han, S.-W., & Marois, R. (2013) An alerting function of anterior insular cortex.

Soc. Neurosci. Abstr.

Filmer, HL, Mattingley, JB, Marois, R, Dux PE. (2013) Disrupting human

prefrontal cortex prevents performance gains from sensory-motor training. Soc. Neurosci. Abstr.

Godwin, D, Barry, R, & Marois, R. (2013) Assessing functional modularity with

awareness in the human brain. Soc. Neurosci. Abstr.

Treadway MT, Buckholtz JW, Martin JW, Jan K, Asplund CL, Jones OD, &

Marois R. Amygdala Gating of Affective Bias in Punishment. Cog. Neurosci.

Soc. Ann. Meeting.

Han, S.-W., & Marois, R. (2013) Functional fractionation of the stimulus-driven

attention network. Cog. Neurosci. Soc. Ann. Meeting.

Han, S.-W., & Marois, R. (2012) Functional fractionation of the stimulus-driven

attention network: A time-resolved fMRI study. Soc. Neurosci. Abstr. 2012

Godwin, D., & Marois, R. Overlapping Neural Correlates of Awareness and

Attention with fMRI. Soc. Neurosci. Abstr. 2012

Marois, R. Asplund, C.L., Fougnie, D.L., & Martin, J. Graded vs Quantal

Allocation of Attention and Awareness. *Vision Sciences Society*,

Naples, Florida, May 2012.

Tamber-Rosenau, B.J., Dux, P.E., Tombu, M.N., Asplund, C.L., & Marois, R.

Multivoxel pattern analysis fMRI evidence for amodal central processing in the

human prefrontal cortex. Soc. Neurosci. Abstr. 2011.

Marois, R. Asplund, C.L., Fougnie, D.L., & Martin, J. The Attentional Blink reveals

the quantal nature of conscious perception. European Conference on Visual

Perception, Toulouse, France, August 2011.

Han, S. & Marois, R. Involuntary attention improves perception by resolving

competition. *Vision Sciences Society*, Naples, Florida, May 2011.

Han, S., & Marois, R. Disruption of attentional control is associated with

prefrontal cortex activation. Soc. Neurosci. Abstr. 2010

Asplund, C.L., & Marois, R. Functional Dissociation of lateral prefrontal cortex

and dorsal network in the endogenous control of attention. Soc. Neurosci.

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Fougnie, D.L., Asplund, C.L., & Marois, R. Object load and feature load have

distinct effects on visual working memory. *Vision Sciences Society*,

Naples, Florida, May 2010.

Asplund, C.L., Todd, J.J., Snyder, A., Gilbert, C., & Marois, R. Convergence of

goal-directed and stimulus-driven attention in lateral frontal/prefrontal cortex.

Soc. Neurosci. Abstr. (2009).

Han, S., & Marois, R. The nature of the central capacity limit in human

information processing: Serial bottleneck or graded sharing? Object Perception,

Attention, and Memory. Boston, MA, 2009.

Scalf, P., Dux, P.E., & Marois, R. Working memory consolidation delays top-

down attentional processing in visual cortex: A time-resolved fMRI study. *Vision*

*Sciences Society*, Naples, Florida, May 2009.

Asplund, C.L., Todd, J.J., Snyder, A., Gilbert, C., & Marois, R. Convergence of

goal-directed and stimulus-driven selection in lateral prefrontal cortex. *Vision*

*Sciences Society*, Naples, Florida, May 2009.

Todd, J.J., Han, S.W., Harrison, S., & Marois, R. The neural correlates of working

memory consolidation: A time-resolved fMRI study. *Vision Sciences Society*,

Naples, Florida, May 2009.

Robitaille, N., Grimault, S., Todd, J.J., Marois, R., Cheyne, D., & Jolicoeur, P.

Multiple physiological markers of visual short-term memory capacity:

convergence and divergence. *Vision Sciences Society*, Naples, Florida, May

2009.

Fougnie, D.L., Asplund, C.L., & Marois, R. Visual working memory capacity can

be assessed independent of comparison errors. *Vision Sciences Society*,

Naples, Florida, May 2009.

Dux, p.E., Asplnd, C.L., & Marois, R. Both exogenous and endogenous target

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blink. *Vision Sciences Society*, Naples, Florida, May 2009.

Asplund, C.L., & Marois, R. The ventral, but not dorsal, attention network

mediates stimulus-driven attentional limit to conscious perception Soc.

Neurosci. Abstr. (2008).

Fougnie, D.L., & Marois, R. Do visual and auditory working memory share the

same capacity limit? A potential resolution to the debate. Object Perception,

Attention and Memory, Chicago, IL, 2008.

Scalf, P.E., Dux, P.E. & Marois, R. Working Memory Consolidation Delays

Perceptual Processing in Visual Cortex: A Time-Resolved fMRI Study. Human

Brain Mapping, 2008.

Fougnie, D. & Marois, R. Working memory capacity is modality-specific:

Evidence of separate stores for auditory and visuospatial stimuli. *Vision*

*Sciences Society*, Naples, Florida, May 2008.

Dux, P. E., & Marois, R. Individual differences in distractor priming during the

attentional blink: Distractor inhibition gives rise to awareness. *Vision Sciences*

*Society*, Naples, Florida, May, 2008.

Dux, P.E.D., Tombu, M., & Marois, R. From Capacity-Limited to Capacity-Free

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**Services**

• Member, Steering Committee, Vanderbilt Brain Institute 2012-

• Member, Education & Training Subcommittee, VBI 2012-

• Chair, tenure review committee, Psychology Dept 2012

• Member, reappointment review committee for Lecturer Sandberg 2011

• Director of Graduate Studies, Department of Psychology 2011-

• Member, Vanderbilt’s Junior Advisory Review Committee (JARC) 2010-present

• Member, Faculty Reappointment committee, Psychology Dept 2009

• Chair, Socio-Affective faculty search committee, Psychology Dept 2007

• Dept Representative, Graduate Faculty Delegate Assembly 2006-2007

• Chair, EEG faculty search committee, Psychology Dept 2006

• Member, Future Direction Committee, Psychology Dept 2006

• Member, Self-study Committee, Interdepartmental Neuroscience

Program 2004-2005

• Co-Director, Imaging Module, Vanderbilt Vision Research

Training Grant 2003-present

• Member, 3T Scanner Advisory committee 2003-present

• Member, Colloquium Committee, Psychology Department 2001-2011

• Member, Graduate Committee, Department of Psychology 2000-present

• Member, Graduate Committee, Interdepartmental

Neuroscience Program 2000-2008

**Ph.D. and Post Doctoral Advisors**

Thomas J. Carew, Ph.D. Dept. Psychology, Yale University

John C. Gore, Ph.D Dept. Diagnostic Radiology, Yale University School of Medicine

**Graduate students and Post-Doctoral Advisees**

Suk-Won Han Post-doctoral fellow (June 2013- December 2013)

Ben Tamber-Rosenau NEI post-doctoral fellow (2010- )

Michael Tombu NIH post-doctoral fellow (2006-2008)

Paige Scalf Post-doctoral fellow (2006-2009)

Paul Dux, Ph.D., NIH post-doctoral fellow (2005- 2008)

Jason Ivanoff, Ph.D. NSERC post-doctoral fellow (2003-2006)

Doug Godwin Graduate program in Psychology (2010- )

Suk-Won Han Graduate program in Psychology (2007-2013)

Chris Asplund Graduate program in Neuroscience (2005-2010)

Daryl Fougnie Graduate program in Psychology (2003-2009)

Jay Todd Graduate program in Psychology (2002-2008)