

CURRICULUM VITAE
JACQUELINE CLARE SNOW, Ph.D.
October 2016

A BIOGRAPHICAL INFORMATION

1. Personal

Date of Birth: May 7, 1974 (Melbourne, Australia)
Citizenship: Australia, United Kingdom
Address: Department of Psychology
The University of Nevada,
Reno, NV, USA 89557
phone: (775) 682 8661
fax: (775) 784 1126
email: jacqueline.c.snow@gmail.com / snow@unr.edu
web: <https://snowlab.blogs.unr.edu/>

2. Degrees

2000 – 2006 **MPsych. (Clinical Neuropsychology) / PhD (Cognitive Neuroscience)**
University of Melbourne, Australia
Advisor: **Professor Jason Mattingley**

1997 **Bachelor of Science (Hons)**
Department of Psychology, Monash University, Australia
1st Class Honours (H1)
Advisor: **Professor Kristina Macrae**

1992 – 1995 **Bachelor of Arts (Psychology & Zoology Majors)**
Monash University, Australia

3. Employment and Teaching

2013 – Current **Assistant Professor**
Department of Psychology, Program in Cognitive & Brain Sciences, and
Interdisciplinary Program in Neuroscience, University of Nevada, Reno, USA.

2009 – 2013 **Postdoctoral Research Fellow**
Brain & Mind Institute, University of Western Ontario, Canada
Advisors: **Professors Jody Culham & Melvyn Goodale**

2006 – 2008 **Postdoctoral Research Fellow**
University of Birmingham, UK
Advisor: **Professor Glyn Humphreys**

- 2001-2004** **Research Assistant - Neuropsychology**
 Neuropsychological examinations of patients in a double-blind randomized clinical drug trial: testing for clinical progression from Mild Cognitive Impairment (MCI) to Alzheimer's Disease (AD).
 Academic Unit for Psychiatry Of Old Age. St George's Health Service, Melbourne.
 Advisor: Professor E. Chiu
- 2001-2002** **Research Assistant**
 Childhood Dyslexia, Department of Psychology University of Melbourne, Australia
 Advisors: Dr M. Johnston, Dr A. Castles
- 1998-1999** **Adoption & Permanent Care Worker (Level CAFW2)**
 Department of Human Services, Adoption & Permanent Care Unit, Melbourne, Australia.
- 1997-2000** **Research Assistant**
 Department of Psychology, Monash University, Australia
 Advisors: Professor K.T. Ng; Professor K. Macrae; Dr W. McKenzie; Dr S. Carless

4. Honors and Awards

- 2012** **CIMeC, University of Trento, Italy: 2012 Travel Grant: Best Conference Abstract**
2012 **2012 Cognitive Neuropsychology Student Travel Prize** Recipient (1 of 3)
2011 **2011 Object Perception & Memory (OPAM) Travel Award** Recipient (1 of 3)
2006 **Fellowship: Summer Institute in Cognitive Neuroscience:** Dartmouth College, USA

5. Membership and professional affiliations

Society for Neuroscience (SfN)
 Vision Sciences Society (VSS)
 Canadian Society for Brain, Behaviour and Cognitive Science (CSBBCS)

2015-Present: *President*, Sierra Nevada Chapter of the Society for Neuroscience

6. Editorial Activities

Ad hoc reviewer of submitted manuscripts:

Journal of Neuroscience
 Journal of Cognitive Neuroscience
 Proceedings of the Royal Society of London: Series B
 Cerebral Cortex
 Trends in Cognitive Science
 NeuroImage
 Quarterly Journal of Experimental Psychology
 Neuropsychologia

Cortex
Frontiers in Human Neuroscience
Frontiers in Psychology: Perception Science
Experimental Brain Research
Multisensory Research
Neuroscience Letters

B RESEARCH AWARDS

1. Current Research Awards:

2016 - 2021 PI: NIH-NEI R01

Title: Bringing the Real-World into Cognitive Neuroscience: From Images to Real Objects (\$1,750,000)

2016 – 2017 PI: CTR-IN

Title: How human food decisions are influenced by real object versus image displays (\$71,500)

2016 – 2020 co-PI NSF EPSCoR RII Track II (Jacqueline Snow (UNR), Marian Berryhill (UNR), Jared Medina (Delaware), Timothy Vickery (Delaware), Matthew Johnston (Nebraska)):

Title: Neural networks underlying the integration of knowledge and perception (\$6,000,000)

2016 – 2017 PI: Scholarly and Creative Activities Grant, UNR

Title: How human food decisions are influenced by real object versus image displays (\$2,750)

2. Previous Research Awards:

2015 General Undergraduate Research Award (GURA): PI- Student Project: Andrews, Hannah.
University of Nevada Reno, \$1,500.00

General Undergraduate Research Award (GURA): PI - Student Project: Delloro, Andrew,
University of Nevada Reno, \$1,500.00.

2014 DHHS-NIH-NIGMS: COBRE NEURO-PILOT PRJ1 '12/YR3 – PI.
Pilot Project Grant, \$72,330.00.

2014 Acquisition of Instructional and Research Equipment (AIRE) Award
University of Nevada Reno, \$33,000.00.

2008-9 CIHR Vision Health Research Training Grant Recipient, York University, Canada

2006 Early Researcher Start-up Grant, University of Birmingham, UK

2005 Melbourne Abroad Travelling Scholarship, University of Melbourne, Australia

2005 Melbourne University Travel Grant, University of Melbourne, Australia

2002 **Australian Postgraduate Award (APA)** - Australian Government (3 years research funding)

C PUBLICATIONS

1a. Refereed Journals: published or in press

Skiba, R.M., and **Snow, J.C.** (2016). Attentional capture for tool images is driven by the head end of the tool, not the handle. *Attention, Perception and Psychophysics*. DOI: 0.3758/s13414-016-1179-3.

Squires, S.D., Macdonald, S.N., Culham, J.C., & **Snow, J.C.** (2016). Priming tool actions: Are real objects more effective primes than pictures? *Experimental Brain Research*. 234(4):963-76. doi: 10.1007/s00221-015-4518-z.

Snow, J.C., Goodale, M.G., & Culham, J.C. (2015). Preserved haptic shape processing after bilateral LOC lesions. *Journal of Neuroscience*. 35(40), 13745-60. doi: 10.1523/JNEUROSCI.0859-14.2015.

Barnett-Cowan, M., **Snow, J.C.**, and Culham, J.C. (2015). Contribution of bodily and gravitational orientation cues to face and letter recognition. *Multisensory Research*. DOI:10.1163/22134808-00002481.

Snow, J.C., Skiba, R.M., Coleman, T.L., & Berryhill, M.E. (2014). Real-world objects are more memorable than photographs of objects. *Frontiers in Human Neuroscience*, 8 (Article 837): 1-11. doi: 10.3389/fnhum.2014.00837.

Snow, J.C., Strother, L., & Humphreys, G.W. (2014). Haptic shape representation in visual cortex. *Journal of Cognitive Neuroscience*, 26(5): 1154-67. doi: 10.1162/jocn_a_00548. PMID: 24345179.

Podrebarac, S., Goodale, M.A., & **Snow J.C.** (2014). Are visual texture-selective areas recruited during haptic texture discrimination? *NeuroImage*, 94: 129-37. doi: 10.1016/j.neuroimage.2014.03.013. PMID: 24650604.

Podrebarac, S., Goodale, M.A., van der Zwan, R., & **Snow, J.C.** (2013) Gender-selective neural populations: evidence from event-related fMRI repetition suppression. *Experimental Brain Research*, 226(2), 241-252. doi: 10.1007/s00221-013-3429-0. PMID: 23435496.

Snow, J.C., Miranda, R.R. & Humphreys, G.W. (2013). Impaired visual sensitivity within the ipsilesional hemifield following unilateral parietal damage. *Cortex*, 49, 158-171. Doi: 10.1016/j.cortex.2011.07.005. PMID: 21889133.

Snow, J.C., Pettypiece, C.E., McAdam, T.D., McLean, A.D., Stroman, P.W., Goodale, M.A. & Culham, J.C. (2011). Bringing the real world into the fMRI scanner: Repetition effects for pictures versus real objects. *Scientific Reports*, 1(130), DOI: 10.1038/srep00130. PMID: 22355647.

Snow, J.C., Allen, H.A., Rafal, R.D., & Humphreys, G.W. (2009). Impaired attentional selection following lesions to human pulvinar: Evidence for homology between human and monkey. *Proceedings of the National Academy of Sciences of the USA*, 106 (10), 4054 – 4059. Doi: 10.1073/pnas.0810086106. PMID: 19237580.

Snow, J.C. & Mattingley, J.B. (2008). Central perceptual load does not reduce ipsilesional flanker interference in parietal extinction. *Neuropsychology*, 22(3), pp. 371-382. Doi: 10.1037/0894-4105.22.3.371. PMID: 18444715.

Snow, J.C. & Mattingley, J.B. (2006). Goal-driven selective attention in patients with right hemisphere lesions: How intact is the ipsilesional field? *Brain*, 129, 168-181. doi: 10.1093/brain/awh690. PMID: 16317021.

Snow, J.C. & Mattingley, J.B. (2006). Stimulus- and goal-driven biases of selective attention following unilateral brain damage: Implications for rehabilitation of spatial neglect and extinction. *Restorative Neurology and Neuroscience*, 24 (6), 233 – 245. PMID: 17119301

1b. Commentaries

n/a

2. Books and Book Chapters

Snow, J.C., & Mattingley, J.B. (2003). Perception, Unconscious. *Encyclopaedia of Cognitive Science*. Nature Publishing Group. 10.1002/0470018860.s00183

D PRESENTATIONS

1. Invited papers presented at scientific meetings

Snow, J.C. (2016) American Psychological Association, Annual Convention, Denver, Colorado, (August, 2016). *Real-world size improves recognition of real objects, not images*.

Culham, J.C., Fabbri, S., Gallivan, J., Freud, E., and **Snow, J.C.** (July 2016). Society for the Neural Control of Movement, 26th Annual Meeting, Montego Bay, Jamaica. *Human neuroimaging reveals the importance of real hand actions upon real objects for neural coding in the anterior intraparietal sulcus*.

Culham, J. C., **Snow, J. C.**, Gerhard, T. M. & Schwarzer, G. 31st International Congress of Psychology, Yokohama, Japan (July 2016). *The treachery of images: Why the brain responds differently to real object than photos*.

Snow, J.C. (2015) Bay Area Vision Research Day, UC Berkeley. *"The treachery of images": Studying behavioral and brain responses to real-world objects"*.

Snow, J.C. (2014) Annual Conference of the Society for the Advancement of Behavioral Economics (SABE): Pre-Conference Workshop, University of Nevada, USA.: *'Applications of fMRI in neuro-economics'*.

Snow, J.C. (2013) 5th Annual Research Symposium: The Sierra Nevada Chapter of the Society for Neuroscience (Sn-SfN), University of Nevada, USA. *'Bringing the Real World into Cognitive Neuroscience'*.

Snow, J.C. (2012) Center for Mind/Brain Sciences (CIMEC), University of Trento, Italy. Invited talk and poster; Rovereto workshop on Concepts, Actions, and Objects (CAOs): Functional and Neural Perspectives. Center for Mind/Brain Sciences, (CIMEC), University of Trento, Italy. *The lateral occipital area is not necessary for haptic shape recognition.*

2. Papers presented at meetings and symposia

Student projects underlined

Forthcoming

Snow, J.C. (2016) Real-world size improves recognition of real objects, not images. Society for Neurosciences, San Diego, California.

Compton, M.T., O'Neil, E.B., Strother, L., and **Snow, J.C.** (2016). The neural correlates of the 'Real Object Memory Advantage'. Society for Neurosciences, San Diego, California.

Romero, C.S., Gomez, M.A., McGuire, J.T., and **Snow, J.C.** (2016). Motor affordance biases subjective value. Society for Neurosciences, San Diego, California.

Previous

Romero, C.S., Haddad, N.R., and **Snow, J.C.** (2016). Increased willingness-to-pay for real foods versus image displays. Vision Sciences Society, St. Pete's Beach, FL.

Compton, M.T., O'Neil, E.B., Strother, L., and **Snow, J.C.** (2016). Exploring the 'Real Object Advantage' in Recognition Memory using fMRI. Vision Sciences Society, St. Pete's Beach, FL.

Snow, J. C., Squires S. D., Stubbs, K. M., & Culham, J. C. (2016). fMRI reveals different activation patterns for real objects vs. photographs of objects. Vision Sciences Society, St. Pete's Beach, FL.

Holler, D. E., **Snow, J. C.** (2016). Real-world size improves recognition of real objects, not images. 6th Biennial National Idea Symposium Biomedical Research Excellence (NISBRE) Conference, Washington, DC.

Holler, D. E., **Snow, J. C.** (2016). Real-world size improves recognition of real objects, not images. Vision Sciences Society, St. Pete's Beach, FL.

Skiba, R.M., Delloro, A., and **Snow, J.C.** (2016) 'Pseudoneglect for real reachable objects, not images. 6th Biennial National Idea Symposium Biomedical Research Excellence (NISBRE), Washington, DC.

Skiba, R.M., Delloro, A., and **Snow, J.C.** (2016) Stereo shape cues influence gaze patterns during grasping, but not perceptual, tasks. 6th Biennial National Idea Symposium Biomedical Research Excellence (NISBRE) Conference, Washington, DC.

Gomez, M.A. & **Snow, J.C.** (2016). Greater Flanker Effects for Real vs. Images of Action-Based Stimuli. Society for Neurosciences, San Diego, California.

Gomez, M.A. & **Snow, J.C.** (2016). Greater Flanker Effects are observed when Action-Based Stimuli are Real vs. Images. Vision Sciences Society, St. Pete Beach, Florida.

Skiba, R.M., Papa, T., and **Snow, J.C.** (2015) Eye movements to tool images are predicted by frequency of physical experience with the tool. Vision Sciences Society, Naples, FL.

Compton, M.T. and **Snow, J.C.** (2015). Real objects are recalled better than photographs of objects. Society for Neuroscience, Sierra Nevada Chapter Research Symposium, Reno, NV.

Compton, M.T. and **Snow, J.C.** (2015). Real object memory advantage: Graspability enhances performance, Bay Area Vision Research Day, Berkeley, California.

Compton, M.T. and **Snow, J.C.** (2015). Real objects are recalled better than photographs of objects. Vision Sciences Society, Naples, Florida.

Holler, D., Chin, A., Goodale, M., **Snow, J. C.** (2015). Real-world size improves object recognition in visual agnosia. Society for Neuroscience, Sierra Nevada Chapter Research Symposium, Reno, NV.

Holler, D., Chin, A., Goodale, M., **Snow, J. C.** (2015). Real-world size improves object recognition in visual agnosia. Bay Area Vision Research Day (BAVRD) Berkeley, CA.

Gomez, M.A. & **Snow, J.C.** (2015). Real Objects Elicit Stronger Action Affordance Effects than Images, Sierra Nevada Chapter of the Society for Neuroscience 7th Annual Research Symposium.

Gomez, M.A. & **Snow, J.C.** (2015). Real Objects Elicit Stronger Action Affordance Effects than Images. UC Bay Area Vision Research Day (BAVRD) Berkeley, CA.

Gomez, M.A. & **Snow, J.C.** (2015). Implied Action Affordance Facilitates Visual Search, Vision Sciences Society, St. Pete Beach, Florida.

Snow, J. C., Squires, S. D., Stubbs, K. M., & Culham, J. C. (2015). fMRI reveals different activation patterns for real objects vs. photographs of objects. Society for Neurosciences, Chicago, Illinois, USA.

Squires S. D., **Snow, J. C.**, Stubbs, K. M., & Culham, J. C. (2015). fMRI reveals representational similarity for objects that are used on the body vs. other objects. Society for Neurosciences, Chicago, Illinois, USA.

Compton, M.T. and **Snow, J.C.** (2014). Real objects are recalled better, and sooner, than photographs of objects, Vision Sciences Society, Naples, Florida.

Gomez, M.A. & **Snow, J.C.** (2014). Implied Action Affordance Facilitates Visual Search, Poster presentation for the Sierra Nevada Chapter of the Society for Neuroscience 6th Annual Research Symposium.

Coleman, T.L., Skiba, R.M., Berryhill, M.E., & **Snow, J.C.** (2014). Bringing the real world into cognitive neuroscience: Real objects are more memorable than pictures. Vision Sciences Society, Naples, Florida.

Snow, J.C., Coleman, T.L., and Goodale, M.A. (2014). Real-world size improves object recognition in visual form agnosia. Vision Sciences Society, Naples, Florida.

Chen, J., Goodale, M.A., Culham, J.C., and **Snow, J.C.** (2014). fMRI activation and connectivity in the dorsal and ventral visual streams for elongated and stubby tools and non-tools. Vision Sciences Society, Naples, Florida.

Snow, J. C. Behrmann, M., & Goodale, M.A. (2013). Neuropsychological evidence for separate shape representations in vision and touch: a study using the Judd variant of the Muller-Lyer illusion. Vision Sciences Society, Florida.

Snow, J. C., Culham, J. C., & Rangel, A. (2013). Bringing the real world into the fMRI scanner: Real objects amplify the neural correlates of valuation compared to photos. Poster Society for Neurosciences, San Diego, California, USA.

Culham, J. C., **Snow, J. C.**, & Rangel, A. (2012). Bringing the real world into the fMRI scanner: Real objects amplify the neural correlates of valuation compared to photos. Vision Sciences Society, Florida.

Podrebarac, S., Goodale, M.A. & **Snow, J.C.** (2012). Are visual texture-selective areas recruited during haptic texture discrimination? Vision Sciences Society, Florida.

Snow, J.C., Goodale, M.A. & Culham, J.C. (2012). The lateral occipital area is not necessary for haptic shape recognition. Society for Neurosciences, New Orleans, USA.

Barnett-Cowan, M., **Snow, J.C.**, & Culham, J.C. (2012). Haptic object recognition is influenced by the orientation of the body relative to gravity. Society for Neurosciences, New Orleans, USA.

Gallivan, J.P., **Snow, J.C.**, McLean, A., Pettypiece, C.E., & Culham, J. Haptic shape decoding in primary visual cortex. Society for Neurosciences, New Orleans, USA.

Snow, J.C., Goodale, M.A. & Culham, J.C. (2012). The lateral occipital area is not necessary for haptic shape recognition. Talk; Canadian Society for Brain, Behaviour, and Cognitive Science (CSBBCS) 22nd Annual Meeting, Kingston, Canada.

Snow, J.C., Strother, L., Coros, A. & Culham, J.C. (2012). How independent are form and color in the ventral visual pathway? Poster; Vision Sciences Society, Florida.

Podrebarac, S., Goodale, M.A., van der Zwan, & **Snow, J.C.** (2012). Gender-selective neural populations within the occipital and fusiform face areas: Evidence from rapid event-related fMRI. Talk; Vision Sciences Society, Florida.

Barnett-Cowan, M., Culham, J.C., & **Snow, J.C.** (2012). The haptic perceptual upright. Poster; Canadian Society for Brain, Behaviour, and Cognitive Science (CSBBCS) 22nd Annual Meeting, Kingston, Canada.

Snow, J.C. & Culham, J.C. (2011). Is the lateral occipital complex necessary for haptic object recognition? Object shape representation in a visual agnosic with bilateral occipito-temporal lesions. OPAM: 19th Annual Meeting, Seattle, WA, USA.

Snow, J.C., Pettypiece, C.E., McAdam, T.D., Stroman, P.W., & Culham, J.C. (2011). Bringing the real world into the fMRI scanner: robust repetition suppression for 2D pictures but not actual 3D objects. Vision Sciences Society, Florida.

Snow, J.C., Pettypiece, C.E., McAdam, T.D., Stroman, P.W., & Culham, J.C. (2009). No fMRI repetition suppression for real 3D objects, only 2D pictures of objects: An unexpected result. Society for Neurosciences, Washington, October.

Snow, J.C., Allen, H.A., Strother, L., Miall, R. C. & Humphreys, G.W. (2008). Multisensory visuo-tactile integration in LOC and parietal cortex: a study using fMRI adaptation. Society for Neurosciences, Washington DC.

Snow, J.C., Allen, H.A., Rafal, R.D., & Humphreys, G.W. (2007). Impairments in attentional selectivity following lesions to human pulvinar. Vision Sciences Society, May, Sarasota, FL.

Snow, J.C., Allen, H.A., Rafal, R.D., & Humphreys, G.W. (2007) Impaired selection following lesions to human pulvinar. International Brain Research Organization (IBRO) 7th World Congress of Neuroscience, Melbourne, Victoria, Australia.

Snow, J.C. & Mattingley, J.B. (2005). The role of goal-directed attention in inhibiting task-irrelevant information in parietal extinction. 12th Annual Meeting of the Cognitive Neuroscience Society, New York, U.S.A.

Snow, J.C. & Mattingley, J.B. (2005). The role of goal-directed attention in inhibiting task-irrelevant information in parietal extinction. 32nd Australian Experimental Psychology Conference, Melbourne, Australia.

3. Departmental colloquia/seminars

2016 Cognitive Science Colloquium, University of Arizona, Tucson Arizona (September 2016). "The treachery of images": how (and why) behavior and brain responses differ for real-world objects versus their representations

2013 Department of Psychology, University of Nevada, Reno, USA. Invited Talk: '*Bringing the Real World into Cognitive Neuroscience*'.

2011 Department of Psychology, Auburn University, AL, USA

Department of Psychology, University of Western Australia, Perth, Australia

Department of Psychology, University of Arizona, AZ, USA

2010 Department of Neuroscience & Physiotherapy, University of West Virginia, WV, USA

2009 Department of Psychology, York University, Toronto, ON, Canada
(Guest Lecture: Vision Health & Visual Disabilities Graduate Seminar Series)

- 2007** CIHR Group for Action & Perception, University of Western Ontario, Canada
(Professors Mel Goodale & Jody Culham)
- Attention Group, MRC Cognition and Brain Sciences Unit, Cambridge, UK.
(Prof. John Duncan)
- 2006** Department of Psychological and Brain Sciences, Johns Hopkins University, Baltimore, USA.
(Prof. Steven Yantis)
- Department of Cognitive Neuroscience & Cognitive Systems, University of Kent, UK.
(Prof. Howard Bowman)
- Research Staff Annual Meeting, Department of Psychology, University of Birmingham, UK.
(Prof. Glyn Humphreys)
- 2005** Department of Neuroscience and Clinical Neurology, University of Geneva, Switzerland.
(Dr Patrik Vuilleumier)
- Institute of Cognitive Neuroscience, Queens Square, London, UK.
(Prof. Jon Driver)
- Behavioural Brain Sciences Centre, University of Birmingham, UK.
(Prof. Glyn Humphreys)
- Beckman Institute, Caltech University, California, Los Angeles, USA.
(Prof. Christof Koch)
- St George's Hospital: In-service Program, Melbourne, Australia.
(Allied Health Staff lecture on Unilateral Neglect)
- 2005** School of Physiotherapy, University of Melbourne
Neuropsychological Disorders & Patient Rehabilitation

E STUDENT / POSTDOC TRAINING

Graduate Students

Michael Gomez
Michael Compton
Desiree Holler
Carissa Romero
Brandon Brizendine
Taylor Coleman
Scot Squires
Samantha Podrebarac
Alex Coros

Postdoctoral Fellows

(Starting October 2016: Francesco Marini)

Alumni

Rafal Skiba (Ph.D.)

E TEACHING

Undergraduate:

Psychology 240.1001: Introduction to Research Methods.

Graduate:

Psychology 762.1001: Perception & Action

Psychology 762.1001: The Cognitive and Neural Basis of Object Perception

Psychology 761.1001: Clinical Neuropsychology

Psychology 762.1001: Introduction to Functional Magnetic Resonance Imaging