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Education and Research Experience

- 2018 - **Medical Researcher**, Graduate Institute of Mind, Brain, and Consciousness,
Taipei Medical University; Research Center of Brain and Consciousness,
Taipei Medical University-Shuang Ho Hospital
- 2010 - **Postdoctoral Associate**, Queen's University, Canada
2018 (Supervisor: Dr. Douglas Munoz)
- 2009 **Ph.D. in Cognitive Neuroscience**, National Yang-Ming University, Taiwan
(Supervisor: Drs. Ovid Tzeng and Jie-Li Tsai)
- 2007 - **Research Visit**, Department of Psychology, Binghamton University, NY
2009 (Supervisor: Dr. Albrecht Inhoff)
- 2004 **M.S. in Cognitive Neuroscience**, National Yang-Ming University, Taiwan
(Supervisor: Drs. Ovid Tzeng, Jie-Li Tsai and Daisy Hung)
- 2002 **B.S. in Psychology**, Fu Jen Catholic University, Taiwan

Funding and Awards

- 2012 Postdoctoral Research Fellowship from the Natural Sciences and Engineering Research
-2014 Council of Canada
- 2009 Germany Humboldt Postdoctoral Research Fellowship (declined to work with Dr. Munoz)
- 2009 Chiang Ching-Kuo Foundation Scholarship for Doctoral Students
Short-Term Research Overseas (Taiwan)
- 2008 Fulbright Scholarship (USA)
- 2007 National Science Council Oversea Scholarship (Taiwan)

Publications

*Refereed Journal Articles (*corresponding author; trainees are underlined)*

1. Solomon MJ, Seymour BA, **Wang C-A**, *Inhoff AW. (accepted). Selection for processing and saccade targeting in reading. *Journal of Eye Movement Research*. [IF: 1.11]
2. ***Wang C-A**, Baird T, Huang J, Coutinho J, Brien DC, Munoz DP. Arousal effects in pupil size, heart

- rate and skin conductance at an emotional face task. *Frontiers in Neurology*, 9, 1029. (special issue: The Pupil: Behavior, Anatomy, Physiology and Clinical Biomarkers). [IF: 3.508]
3. ***Wang C-A**, Tworzyanski L, Huang J, *Munoz DP. (in press). Response anisocoria in the pupillary light and darkness reflex. *European Journal of Neuroscience*. [IF: 2.832]
4. * **Wang C-A**, Munoz DP. Neural basis of location-specific pupil luminance modulation (in press). *Proceedings of the National Academy of Sciences*. [IF: 9.504]
5. ***Wang C-A**, Huang J, Yep R, Munoz DP. (2018) Comparing pupil light response modulation between saccade planning and working memory. *Journal of Cognition*, 1(1), 33. (Special Issue: What can pupils tell us about cognition?)
6. ***Wang C-A**, Blohm G, Huang J, Boehnke SE, Munoz DP. (in press) Multisensory integration in orienting behavior: pupil size, microsaccades and saccades. *Biological Psychology*, 129:36-44. [IF: 3.070]
7. ***Wang C-A**, McInnis H, Brien DC, Pari G, *Munoz DP. (2016). Disruption of pupil size modulation correlates with voluntary saccade deficits in Parkinson's disease. *Neuropsychologia*, 80(8):176-184. [IF: 2.989]
8. **Wang C-A**, *Munoz DP. (2015). A circuit for pupil orienting responses: implications for cognitive modulation of pupil size. *Current Opinion in Neurobiology*, 33:134-140. [IF: 6.373]
9. ***Wang C-A**, Brien DC, *Munoz DP. (2015). Pupil size reveals preparatory processes in the generation of pro- and anti-saccades. *European Journal of Neuroscience*, 41(8):1102-1110. [IF: 2.975]
10. Ikeda T, Boehnke SE, Marino RA, White BJ, **Wang C-A**, Levy R, *Munoz, DP. (2015) Spatio-temporal response properties of local field potentials in the primate superior colliculus. *European Journal of Neuroscience*, 41(6): 856-865. [IF: 2.975]
11. ***Wang C-A**, Munoz, D.P. (2014). Modulation of stimulus contrast on the human pupil orienting response. *European Journal of Neuroscience*, 40(5):2822-2832. [IF: 2.975]
12. ***Wang C-A**, Boehnke SE, Itti L, Munoz DP. (2014). Transient pupil response is modulated by contrast-based saliency. *Journal of Neuroscience*, 34(2):408-417. [IF: 5.924]
13. **Wang C-A**, *Inhoff AW. (2013). Extraction of linguistic information from successive words during reading: evidence for spatially distributed lexical processing. *Journal of Experimental Psychology: Human Perception and Performance*, 35, 1571-1584. [IF: 2.425]
14. **Wang C-A**, Boehnke SE, White BJ, *Munoz DP. (2012). Microstimulation of the primate superior colliculus induces pupil dilation without evoking saccades. *Journal of Neuroscience*, 32, 3269-3236. [IF: 5.924]
15. ***Wang C-A**, Inhoff AW. (2010). The influence of visual contrast and case changes on parafoveal preview benefits during reading. *Quarterly Journal of Experimental Psychology*, 63, 805-817. [IF: 2.13]
16. *Inhoff AW, Greenberg SN, Solomon M, **Wang C-A**. (2009). Word integration and regression programming during reading: A test of the E-Z Reader 10 model. *Journal of Experimental Psychology: Human Perception and Performance*, 35, 1571-1584. [IF: 2.425]
17. **Wang C-A**, *Inhoff AW, Radach R. (2009). Is attention confined to one word at a time? The spatial distribution of parafoveal preview benefits during reading. *Attention, Perception, & Psychophysics*,

71, 1487-1494. [IF: 1.782]

18. **Wang C-A**, *Tsai J-L, Inhoff AW, Tzeng OJL. (2009). Acquisition of linguistic information to the left of fixation during the reading of Chinese text. *Language and Cognitive Processes*, 24, 1097-1123. [IF: 2.101]

19. *Tsai J-L, Yen M-H, **Wang C-A**. (2005). Recoding on eye movements and its application on Chinese reading. *Research in Applied Psychology*, 28, 91-104. (in Chinese)

*Conference Proceedings (*talks: 14; trainees are underlined)*

***Wang C-A**, Munoz DP. *The role of the superior colliculus in pupillary responses to saliency*. International Conference on Cognitive Science, 2017.

Wang C-A, Munoz DP. *Coordinated pupillary and saccadic responses through the superior colliculus*. Gordon Research Conference on Eye Movements, 2017.

***Wang C-A**, Munoz DP. *Superior colliculus coordinates pupillary and saccadic responses*. Vision Sciences Society, 2017.

Wang C-A, Munoz DP. *Modulation of pupillary light responses by saccade preparation, working memory, and microstimulation of the superior colliculus*. Society for Neuroscience, 2016.

Huang J, Smorenburg M, **Wang C-A**, Munoz DP. *Using pupil response to assess cognitive function across the healthy lifespan*. Canadian Association for Neuroscience, 2016.

***Wang C-A**, Munoz DP. *Attentional modulation of pupillary light responses by microstimulation of the superior colliculus*. Vision Sciences Society, 2016.

Kan JY, White BJ, **Wang C-A**, Itti, L, Munoz, DP. *Visual saliency response in the superficial and intermediate superior colliculus and the pupil*. Vision Sciences Society, 2016.

***Wang C-A**, Munoz DP. *Microstimulation of the superior colliculus produces coordinated saccade and pupil responses*. Society for Neuroscience, 2015.

***Wang C-A**, Munoz DP. *Pupil orienting responses coordinated by the superior colliculus*. International Pupil Colloquium, 2015.

***Wang C-A**, Munoz DP. *The role of the superior colliculus in the coordination of the pupil orienting response*. European Conference on Eye Movements, 2015.

Huang J, **Wang C-A**, Munoz DP. *Multisensory integration in human pupil orienting response*. Canadian Association for Neuroscience, 2015.

***Wang C-A**, Brien DC, Munoz DP. *Pupil size reveals preparatory processes in the generation of pro- and anti-saccades*. Vision Sciences Society, 2015.

Wang C-A, Munoz DP. *The role of the superior colliculus in the coordination of the pupil orienting response*. Society for Neuroscience, 2014.

Wang C-A, Munoz DP. *Modulation of stimulus saliency on human pupil orienting response*. Canadian Association for Neuroscience, 2014.

- *Wang C-A**, Munoz DP. *The role of the superior colliculus in the coordination of the pupil orienting response*. Canadian Association for Neuroscience (satellite on Brain Circuits and Behaviour), 2014.
- Ikeda T, Boehnke SE, White BJ, **Wang C-A**, Marino RA, Levy R, Munoz DP. *Visuomotor processing in the Superior Colliculus: Comparison between single unit activity and local field potentials*. Society for Neuroscience, 2013.
- Wang C-A**, Boehnke SE, Itti L, Munoz DP. *Modulation of stimulus saliency and modality on transient pupil responses*. Society for Neuroscience, 2013.
- Ikeda T, Boehnke SE, **Wang C-A**, White BJ, Marino RA, Levy R, Munoz DP. *Comparison of single unit and local field potential visual responses in the Superior Colliculus*. Gordon Research Conference on Eye Movements, 2013.
- Wang C-A**, Boehnke SE, Munoz DP. *Transient pupil response is evoked by a salient stimulus and superior colliculus microstimulation*. Gordon Research Conference on Eye Movements, 2013.
- Wang C-A**, Boehnke SE, Munoz DP. *Transient pupil dilation is evoked by salient visual stimulation and superior colliculus microstimulation*. Canadian Association for Neuroscience, 2013.
- *Wang C-A**, Boehnke SE, Munoz DP. *The role of the superior colliculus in salience-driven pupil dilation*. Society for Neuroscience, 2012.
- *Wang C-A**, Boehnke SE, White BJ, Munoz DP. *Pupil dilation is evoked by visual stimulus salience and microstimulation of the superior colliculus*. Canadian Society for Brain, Behaviour and Cognitive Science meeting, 2012.
- Wang C-A**, Boehnke SE, Munoz DP. *Pupil dilation evoked by a salient auditory stimulus facilitates saccade reaction times to a visual stimulus*. Vision Sciences Society, 2012.
- *Wang C-A**, Boehnke SE, White BJ, Munoz DP. *Microstimulation of the primate superior colliculus induces pupil dilation without evoking saccades*. European Conference on Eye Movements, 2011.
- Wang C-A**, Boehnke SE, White BJ, Munoz DP. *Subthreshold microstimulation of the superior colliculus induces pupil dilation*. Vision Sciences Society, 2011.
- Wang C-A**, Boehnke SE, Munoz DP. *Pupil modulation during visual and oculomotor tasks*. Society for Neuroscience. 2010.
- *Inhoff AW**, Seymour BA, **Wang C-A**, Fleischer J, Radach R. *Words are spatially indexed during reading*. Psychonomic Society, 2009.
- *Inhoff AW**, **Wang C-A**. *Information acquisition after the skipping of words during reading*. European Conference on Eye Movements, 2009.
- Seymour BA, Inhoff AW, **Wang C-A**. *Saccade Trajectory Deviations in Van der Stigchel & Theeuwes (2007): General Inhibition, or Inhibition-of-Return?* Eastern Psychological Association, 2009.
- Wang C-A**, Inhoff AW, Seymour BA, Solomon MJ. *The influence of parafoveal word N-1 visibility on word N+1 recognition during reading*. Psychonomic Society, 2008.
- Inhoff AW, **Wang CA**, Solomon M, Seymour BA. *Is the processing of successive words strictly serial during reading?* Psychonomic Society, 2007.

Wang C-A, Tsai J-L, Inhoff AW, Lee C-Y, Hung DL, Tzeng OJL. *Parafoveal-on-foveal effects in Chinese Reading: an Eye-Movements Study*. European Conference on Eye Movements, 2007.

*Inhoff AW, Solomon MJ, Seymour BA, **Wang C-A**. *Does saccade targeting determine the acquisition of parafoveal word information?* European Conference on Eye Movements, 2007.

Wang C-A, Tsai J-L, Tzeng OJL, Hung DL. *Retrieving word information in the left of fixation during Chinese sentence reading*. Annual Conference on Architectures and Mechanisms for Language Processing, 2006.

Wang C-A, Tsai J-L, Tzeng OJL, Hung DL. *Word identification in the left of fixation during Chinese sentence reading: An eye movement study*. International Conference on Processing Chinese and Other East Asian Languages, 2005.

Wang C-A, Tsai J-L, Tzeng OJL, Hung DL. *Using saccadic inhibition to investigate attentional control in reading Chinese: an oculomotor study*. Cognitive Neuroscience Society, 2005.