

Wen-Hsuan Chan

Department of Cognitive Science
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Research Interests

Hemispheric asymmetry, Word Recognition, Visual Perception, Optimal Viewing Position, Computational Linguistic modeling, Electrophysiology (EEG)

Education

2011 - present Ph.D. candidate, University of California, San Diego
2008 - 2011 M.S., Cognitive Science, University of California, San Diego (GPA 3.95/4.00)
2002 - 2005 B.S., Psychology, National Taiwan University (GPA 3.95/4.00, ranked top 3 in psychology department)

Grants and Fellowships

2011 - 2012 **Departmental Block Grant Fellowships (\$11,000)**
Cognitive Science, UCSD
2011 **Robert J. Glushko and Pamela Samuelson Graduate Fellowship (\$3000)**
Cognitive Science, UCSD
2008 - 2011 **Graduate Fellowship in Cognitive Neuroscience (\$150,000)**
Ministry of Education Taiwan

Major Honor and Awards

2015 Graduate Student Association Travel Funds, UCSD
2011, 14 Elizabeth Bates Graduate Research Award, Center for Research in Language, UCSD
2011 Graduate Excellence Award, Cognitive Science, UCSD
2010, 14, 15 Department Travel Fund, Cognitive Science, UCSD
2009, 14 Dean of Social Sciences Travel Fund Award, UCSD
2009 Dean's funding, UCSD (\$2000)
2004 Dean's List, National Taiwan University, Taiwan
2003 - 2004 Presidential List, National Taiwan University, Taiwan
2002 - 2005 Taiwan Chan Clan Association Fellowship

Thesis

2010 M.S., Cognitive Science, University of California, San Diego
Thesis title: The optimal viewing position effect: on the relation between lexical informativeness and cerebral differences on word processing
Thesis Committee: Marta Kutas (Advisor), Virginia de Sa, and Douglas Nitz

Peer-Reviewed Publications

N. Smith, **W-H Chan**, & R. Levy (2010). Is perceptual acuity asymmetric in isolated word recognition? Evidence from an ideal-observer reverse-engineering approach. *Proceedings of the 32nd Annual Meeting of the Cognitive Science Society*, pp. 1483–1488.

C-Y Lee, J-L Tsai, **W-H Chan**, C-H Hsu, Daisy L. Hung & Ovid J. L. Tzeng (2007). The temporal dynamics of consistency effect in reading Chinese: An ERP study. *Neuro Report*, 8, 2, pp.147-151

Published Abstract

W-H Chan, T. P. Urbach & M. Kutas (Mar, 2015). Look here: An event-related brain potential (ERP) investigation of the optimal viewing position (OVP) in word recognition. Poster presented at the 22nd annual meeting of Cognitive Neuroscience Society (CNS), San Francisco, USA

W-H Chan, T. P. Urbach & M. Kutas (Aug, 2014). An ERP investigation of hemispheric asymmetry: Is the Optimal Viewing Position (OVP) asymmetry for foveal stimuli similar to right visual field advantage for non-foveal stimuli? Poster presented at the 6th Society of the Neurobiology of Language (SNL) Annual Conference, Amsterdam, Netherland

W-H Chan, T. P. Urbach & M. Kutas (Apr, 2014). Is the Optimal Viewing Position (OVP) asymmetry for foveal stimuli similar to right visual field advantage for non-foveal stimuli? an ERP investigation of hemispheric asymmetry. Poster presented at the 21st annual meeting of Cognitive Neuroscience Society (CNS), Boston, USA

W-H Chan, T. P. Urbach & M. Kutas (Nov, 2013). The hemispheric differences on the optimal viewing position asymmetry. Poster presented at the 5th Society of the Neurobiology of Language (SNL) Annual Conference, San Diego, USA

W-H Chan, T. P. Urbach & M. Kutas (Aug, 2011). The asymmetry of the optimal viewing position: What do you mean hemispheric differences -- language specific or not? Poster presented at the 16th European Conference on Eye Movements (ECEM), Marseille, France.

W-H Chan, T. P. Urbach & M. Kutas (Apr, 2011). The asymmetry of the optimal viewing position: Is early visual processing asymmetric? An ERPs study. Poster presented at the 18th annual meeting of Cognitive Neuroscience Society (CNS), New York, USA.

- Investigated Neighborhood size effect by using fMRI and MEG measurements
- Regression analysis on Chinese corpus

2005 Philosophy Dept. National Taiwan University

Research Assistant

Supervisor: Prof. Liang Caleb

- Studied the philosophy debate of Conceptionalism vs. Nonconceptionalism
- Literature reviewed on psychological empirical studies

2004 - 2005 Mackay Medicine, Nursing and Management College

Research Student

Supervisor: Dr. Hui-Chun Huang

- Established Animal Model of Alzheimer's disease of C57BL6J/C3H mice

2004 - 2005 Psychology Dept. National Taiwan University

Undergraduate Research Assistant

Supervisor: Prof. Yeh, Yei-Yu

- Studied emotional modulation of attention
- Developed comparative IAPS rating for a Chinese version

2004 Taipei Veterans General Hospital

Interviewer

- Interviewed participants for the project of Health Inventory to the Climacteric Women

2003 - 2005 Psychology Dept. National Taiwan University

Undergraduate Research Assistant

Supervisor: Prof. Liang, Keng-Chen

- Learned mice reproduction, behavioral training (Morris Water Maze),
- Learned behavioral surgery such as Ovariectomy, Perfusion and Cranial surgery

2003 - 2004 Psychology Dept. National Taiwan University

Research Assistant

Supervisor: Prof. Hu, Chih-Wei

- Studied Math errors of Elementary school students
- Developed algorithm of math error detection
- Technical supports for the user interface and conducted student interviews

Teaching Experience

Teaching assistant

2014 Spring Introduction to Computation (Dr. Boyle, Mary)

2014 Winter Introduction to Computation (Dr. Boyle, Mary)

2013 Fall Introduction to Cognitive Science (Dr. Boyle, Mary)

2013 Summer Usability and Information Architecture (Dr. Boyle, Mary)

2013 Winter Introduction to Cognitive Science (Prof. Yu, Angela)

2013 Spring Introduction to Cognitive Science (Prof. Sayign, Ayse)

2012 Fall	Design and Data analysis of Experiments (Prof. Núñez, Rafael)
2012 Summer	Introduction to Computation (Dr. Kraus, Tim)
2012 Spring	Design and Data analysis of Experiments (Prof. Creel, Sarah)
2011 Fall	Introduction to Cognitive Science (Dr. Boyle, Mary)
2011 Winter	Design and Data analysis of Experiments (Prof. Núñez, Rafael)
2010 Fall	Design and Data analysis of Experiments (Prof. Creel, Sarah)
2010 Spring	Language Development (Prof. Creel, Sarah)
2010 Winter	Introduction to Cognitive Science (Dr. Belew, Richard K.)
2009 Spring	Cognitive Technology (Prof. Hutchin, Edwin)
2009 Winter	Design and Data analysis of Experiments (Dr. Groppe, David)

Campus and Departmental Talks

- " Is the Optimal Viewing Position (OVP) asymmetry for foveal stimuli similar to right visual field advantage for non-foveal stimuli? An ERP investigation of hemispheric asymmetry." May 2014. Poster presented at UC San Diego Cognitive Science reunion, La Jolla, CA, USA
- " The asymmetrical optimal viewing position (OVP) may not be completely determined, but enhanced by word-specific processing." Jan 2013. Oral presented at Kutas Cognitive Electrophysiology Lab Meeting, UCSD
- " Word recognition - an adaptive, dynamic process between words and readers: Studies on the Optimal Viewing Position (OVP) effect." June 2011. Oral presented at Cognitive Science, UCSD
- " The optimal viewing position effect: on the relation between lexical informativeness and cerebral differences on word processing." June 2010. Oral presentation at Cognitive Science, UCSD
- " A Bayesian model of the Optimal Viewing Position (OVP) effect in word recognition." June 2009. Oral presented at Computational Psycholinguistics Lab Meeting, UCSD

Academic Service and Membership

Technical Report Editor and Speaker Series Coordinator, Center for Research in Language, UCSD, 2014-
Member, Cognitive Neuroscience Society, 2007, 2008, 2011, 2014-
Member, Society for the Neurobiology of Language, 2013, 2014-
Organizer, Film showcase: Wonders, 2013, 2014
Reading Series Coordinator, Controversial Writers of Contemporary Chinese Literature, 2013
Reading Series Coordinator, Taiwanese Literature during the period of Japanese rule, 2011-2012
Organizer, Film Showcase: Films with Select Asian Directors, 2012
Member, Cognitive Science Society, 2010

Select Graduate Courses

- 2008 Probabilistic Methods in Linguistics, UCSD. Instructor: Roger Levy
- 2008 Modeling and Data Analysis, UCSD. Instructor: Virginia de Sa
- 2008 Quantitative Methods in Psychology. Instructor: Mark Appelbaum
- 2009 Electrophysiology of Cognition, UCSD. Instructor: Marta Kutas
- 2009 Seminar on Special Topics: Mirror Neuron Systems, UCSD. Instructor: Jamie A. Pineda
- 2009 Computational Model of Cognition, UCSD. Instructor: Virginia de Sa
- 2010 Computational Psycholinguistic, UCSD. Instructor: Roger Levy
- 2010 Psychology of Reading, UCSD. Instructor: Keith Rayner
- 2010 Seminar on Special Topics: Neuropsychology & Brain Disorders, UCSD. Instructor: Ayşe Saygın
- 2011 Semantics and Cognition, UCSD. Instructor: Ben Bergen

Undergraduate Student Supervision

Undergraduate Research Opportunity Program, UCSD: Michelle Wang (Cognitive Science, 2014), Hui-Ping Lee (Cognitive Science, 2014), Anna Chen (Cognitive Science/Neuroscience, 2015), Jiayu He (Cognitive Science, 2015)

Languages

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| Spoken and written | Mandarin (native), Taiwanese (native), English (highly proficient), Cantonese (elementary proficiency), Shanghainese (elementary proficiency), German and Japanese(beginner) |
| Programming | Matlab, Python, R, Latex, HTML, CSS, JavaScript |