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**Professional history**

- 08/2017- Associate professor at National Taiwan University  
*Main appointment:* Graduate Institute of Linguistics. *Joint appointment:* Department of Psychology; Graduate Institute of Brain and Mind sciences
- 08/2012- Assistant professor at National Taiwan University  
07/2017 *Main appointment:* Graduate Institute of Linguistics. *Joint appointment:* Department of Psychology; Graduate Institute of Brain and Mind sciences
- 09/2010- Postdoctoral Research Fellow, Moss Rehabilitation Research Institute,  
07/2012 Albert Einstein Healthcare Network, USA.  
Advisor: Laurel J. Buxbaum

**Educational background and Degrees Awarded**

- 2006-2010 Ph.D in Psychology, University of Illinois at Urbana-Champaign, USA  
Thesis "Electrophysiological investigations of lexical ambiguity resolution."  
Advised by Dr. Kara D. Federmeier.
- 2004-2006 M.A. in Psychology, University of Illinois at Urbana-Champaign, USA  
Thesis "To mind the mind: an event-related potential study of word class and semantic ambiguity." Advised by Dr. Kara D. Federmeier.
- 1999-2002 M.A. in Linguistics, National Taiwan Normal University, Taiwan  
Thesis "Processing of disyllabic compound words in Chinese aphasia."  
Advised by Drs. Daisy L. Hung and John K.P. Tse.
- 1994-1998 B.A. in English, National Taiwan Normal University, Taiwan

## Honors and Awards

- 2015 National Taiwan University Outstanding Academic Achievement Award
- 2014 National Taiwan University Teaching Excellence Award (up to top 9%)
- 2012-2015 Taiwan National Science Council Recruiting Outstanding and Excellent Scholars Award, NSC 101-3114-C-002-101-ES
- 2009-2010 William Orr Dingwall Foundation Neurolinguistics Dissertation Fellowship
- 2008 Society for Psychophysiological Research Tursky Award
- 2003 Fulbright Scholarship (declined due to deferred enrollment to the UIUC PhD program)

## Research support

- 08/2018-07/2019 ***Age-related effects on error detection and creativity appreciation in language.*** Taiwan MOST grant. # MOST 107-2410-H-002-122 – Role: Principal Investigator.
- 01/2017-12/2018 ***Neural and cognitive reprogramming for syntax-related language comprehension in healthy aging.*** Taiwan MOST grant. # MOST 106-2420-H-002 -006 -MY2. Role: Principal Investigator.
- 01/2016-12/2017 ***Neural Mechanisms and Individual Differences Underlying Aging of Value-Based Decision Processing.*** Taiwan MOST grant. # MOST 105-2420-H-002-002-MY2. Role: Co-Investigator.
- 01/2016-12/2017 ***Brain Change and Lateralization as a Benchmark in Learning Chinese Characters and Words.*** Taiwan MOST grant. # MOST 105-2420-H-002-007-MY2. Role: Co-Investigator.
- 08/2015-07/2017 ***The influence of mental imagery ability on metaphor comprehension.*** Taiwan MOST grant. # MOST 104-2410-H-002 -155 -MY2. Role: Principal Investigator.
- 12/2014-11/2015 ***Brain Lateralization as a Benchmark in Learning Chinese.*** National Taiwan University Cutting-Edge Steering Research Project Fund. #NTU-CESRP-103R104904. Role: Co-Investigator.
- 11/2014-10/2015 ***Early Prediction and Prevention of Age-Related Cognitive Declines.*** National Taiwan University Cutting-Edge Steering Research Project Fund. #NTU- CESRP-103R104953. Role: Co-Investigator.
- 08/2014-07/2016 ***Altered Network Architecture of Language Processing in Aging: Contribution from the Right Hemisphere in Older Adults.*** Taiwan MOST grant. # MOST 103-2410-H-002 -215 -MY2. Role: Principal Investigator.
- 01/2014-12/2016 ***Differential Effects of Internally- vs. Externally-Regulated Expressive Suppression on Emotional Well-Being: Bridging Social and Neuroscience Levels of Analysis.*** Taiwan National Science Council Junior Researcher grant. #103-2420-H-002-007. Role: Co-Investigator.
- 08/2013-07/2014 ***Effects of aging on the executive functions involved in language processing (II).*** Taiwan National Science Council (NSC) research grant. # 102-2410-H-002-055. Role: Principal Investigator.

- 06/2013- ***Project of Granting Humanities and Social Science Research Book: Neurolinguistics.*** Taiwan NSC grant. # 102-2420-H-002-022-2E. Role: Co-Investigator.
- 05/2014
- 01/2013- ***Effects of aging on the executive functions involved in language processing.*** Taiwan National Science Council Junior Researcher grant. # 102-2410-H-002-005. Role: Principal Investigator.
- 10/2013
- 07/2011- ***Priming of Functional and Structural Action Information.*** Albert Einstein Society Research Grant. Role: Principal Investigator.
- 06/2012

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**Publications** (chronological order) Current h-index:12; Current i10-index:12

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*Manuscripts in preparation or under review*

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1. Weng, Y. L. and **Lee, C. L.** (submitted). Reduced language lateralization is associated with weaker inter-hemispheric inhibition: evidence from healthy young right-handers with familial sinistrality.
2. **Lee, C. L.** (In preparation). Age-related effects on language processing. *Landscape* published by National Taiwan University.
3. Yen, S-H., Hsu, J. H. and **Lee, C. L.** (In preparation) Building Syntactic Structure on the Right Side of the Brain: an Event-Related Potential Study of Artificial Grammar Learning
4. Chen, P-H. and **Lee, C. L.** (In preparation) Interhemispheric Communication Ability Modulates the Laterality of P600 Responses to Syntactic Category Violations in Healthy Young and Older Adults

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*Journal articles and book chapters*

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1. **Lee, C. L.** (2018). Familial sinistrality and language processing. *Psychology of Learning and Motivation*, 68, 143-177.
2. Chen, P-H., Yeh, C., Lu, C., Hsieh, S.-K., Chou, T.-L., Su, L. I.-W., **Lee, C. L.** (2018). Multiple scaffolding mechanisms for L2 syntactic processing: An Event-Related Potential study. *Journal of Chinese Language Teaching*, 15,2,63-93.
3. **Lee, C. L.**, Huang, H. W., Federmeier, K. D., and Buxbaum, L. J. (2018). Sensory and semantic activations evoked by action attributes of manipulable objects: Evidence from ERPs. *NeuroImage*, 167, 331-341.
4. Zhou, J., **Lee, C. L.**, and Yeh, S.-L. (2016). Word meanings survive visual crowding: Evidence from ERPs. *Language, Cognition, and Neuroscience*, 31(9), 1167-1177. <https://doi.org/10.1080/23273798.2016.1199812>
5. Zhou, J., **Lee, C. L.**, Li, K.-A., Tien, Y.-H., and Yeh, S.-L. (2016). Does temporal integration occur for unrecognizable words in visual crowding? *PLOS ONE*, 11(2), e0149355.
6. Payne, B., **Lee, C. L.**, and Federmeier, K. D. (2015). Revisiting the incremental effects of context on word processing: Evidence from single-word event-related brain potentials. *Psychophysiology*. 52, 11, 1456-1469.

7. **Lee, C. L.**, and Federmeier, K. D. (2015). It's all in the family: brain asymmetry and syntactic processing of word class. *Psychological Science*. 26, 7, 997-1005.
8. Shen, Z. Y., Tsai, Y. T. and **Lee, C. L.** (2015). Joint influence of metaphor familiarity and mental imagery ability on action metaphor comprehension: An ERP study. *Language and Linguistics*, 16(4), 615-637.
9. Chou, C-J, Huang, H. W., **Lee, C. L.** and Lee, C. Y. (2014). Effects of Semantic Constraint and Cloze probability on Chinese Classifier-Noun Agreement. *Journal of Neurolinguistics*, 31, 42-54.
10. **Lee, C. L.**, Mirman, D., and Buxbaum, L. J. (2014). Abnormal dynamics of activation of object use information in apraxia: evidence from eyetracking. *Neuropsychologia*. 59, 13-26.
11. **Lee, C. L.**, Middleton, E., Mirman, D., Kalénine, S., and Buxbaum, L. J. (2013). Incidental and context-responsive activation of structure- and function-based action features during object identification. *Journal of Experimental Psychology: Human Perception and Performance*. 39,1,257-270.
12. **Lee, C. L.**, and Federmeier, K. D. (2012). Ambiguity's aftermath: How age differences in resolving lexical ambiguity affect subsequent comprehension. *Neuropsychologia*, 50, 5, 869-879.
13. **Lee, C. L.** and Federmeier, K. D. (2012). In a word: ERPs reveal important lexical variables for visual word processing. In M. Faust (Ed), *Handbook of the Neuropsychology of Language* (PP.184-208). Wiley Blackwell.
14. **Lee, C. L.**, and Federmeier, K. D. (2011). Differential age effects on lexical ambiguity resolution mechanisms. *Psychophysiology*, 48, 960-972.
15. Wlotko, E., **Lee, C. L.**, and Federmeier, K. D. (2010). Language of the aging brain: Event-related potential studies of comprehension in older adults. *Language and Linguistics Compass*, 4, 8, 623-638.
16. Huang, H. W., **Lee, C. L.** and Federmeier, K. D. (2010). Imagine that! ERPs provide evidence for distinct hemispheric contributions to the processing of concrete and abstract concepts. *NeuroImage*, 49,1,1116-1123.
17. **Lee, C. L.** and Federmeier, K. D. (2009). Wave-ering: An ERP study of syntactic and semantic context effects on ambiguity resolution for noun/verb homographs. *Journal of Memory and Language*, 61,538-555.
18. **Lee, C. L.** and Federmeier, K. D. (2008). To watch, to see, and to differ: An event-related potential study of concreteness effects as a function of word class and lexical ambiguity. *Brain and Language*, 104, 145-158.
19. Tse, C. Y., **Lee, C. L.**, Sullivan, J., Garnsey, S. M., Dell, G. S., Fabiani, M., and Gratton, G. (2007). Imaging Cortical Dynamics of Language Processing with the Event-related Optical Signal. *Proceedings of the National Academy of Sciences* 104 (43), 17157-17162.

20. Lee, C. L. and Federmeier, K. D. (2006). To mind the mind: An event-related potential study of word class and semantic ambiguity. *Brain Research 3, Cognitive and Behavioral Neuroscience*, 1081, 191-202.
21. Huang, H. W., Lee, C. Y., Tsai, J. L., Lee, C. L., Hung, L., and Tzeng, J. L. (2006). Orthographic neighborhood effects in reading Chinese two-character words. *Neuroreport*.17 (10):1061-5.
22. Lee, C. L., Hung, L., Tse, K. P., Lee, C. Y., Tsai, J. L., and Tzeng, J. L. (2005). Processing of Disyllabic Compound Words in Chinese Aphasia: evidence for processing limitation hypothesis. *Brain and Language*, 92, 168–184.

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*Published Abstracts and Conference Presentations*

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1. Yen, H.-H., Tang, L., Hsu, H.-J., & Lee, C. L. (2018). Finding syntactic regularities in the right brain: an Event-Related Potential investigation of artificial grammar learning. *Psychophysiology*, 55, Supplement 1, S85.
2. Pan, Y.-L., & Lee, C. L. (2018). No expectations, no disappointments: An Event-Related Potential study on emotional expectation in L2 sentence processing. *Psychophysiology*, 55, Supplement 1, S120.
3. Wei, L.L., & Lee, C. L. (2018). ERP evidence for hemispheric equipotentiality from 8-10 year old children. Poster to be presented at the joint conference of the 17th Conference on the Processing of East Asian Languages and the 9th Conference on Language, Discourse, and Cognition (ICPEAL 17 – CLDC 9) (Oct. 19<sup>th</sup>-21<sup>st</sup>, Taipei, Taiwan).
4. Yeh, C., Yen, H.-H., Hsu, H.-J., & Lee, C. L. (2018). Linking lateralized syntactic processing, inter-hemispheric communication, and language performance —An Event-Related potential study. Poster to be presented at the joint conference of the 17th Conference on the Processing of East Asian Languages and the 9th Conference on Language, Discourse, and Cognition (ICPEAL 17 – CLDC 9) (Oct. 19<sup>th</sup>-21<sup>st</sup>, Taipei, Taiwan).
5. Lee, C. L. (2018). Finding syntactic regularity in the right brain. Young Investigator Speech at the joint conference of the 17th Conference on the Processing of East Asian Languages and the 9th Conference on Language, Discourse, and Cognition (ICPEAL 17 – CLDC 9) (Oct. 19<sup>th</sup>-21<sup>st</sup>, Taipei, Taiwan)
6. Yeh, C., Yen, H.-H., Hsu, H.-J., & Lee, C. L. (2018). Right hemisphere syntactic processing suppressed for native language is seen for a newly learned grammar: evidence from Event-Related potentials. Poster presented at the *International Max Planck Research School for the Language Sciences Conference* (June 5<sup>th</sup>-7<sup>th</sup>, Nijmegen, Netherlands).
7. Weng, Y.-L, Chen, M.-H., Lee, C. L. (2017). Left-lateralized syntactic category processing is modulated by interhemispheric inhibition in healthy young right-handers with familial sinistrality background. *Abstract of the Society for the Neurobiology of Language*, 117.
8. Lin, W.-T., Weng, C.-H., Chen, M.-H., Tseng, W.-Y. I., Goh, J. O. S., Lee, C. L. (2017). Linking white matter integrity to syntactic category processing - an ERP and

- DTI study. *Abstract of the Society for the Neurobiology of Language*, 154.
9. Lai, C.-H., Yeh, C., Chen, P.-H., **Lee, C. L.**, Hsieh, S.-K., Su, I.-W., Liu, T.-H., Lu, C.-R., Tsai, I.-N., Chou, T.-L. (2017). Right hemisphere contribution in syntactic category processing in L2 —ERP and fMRI data from learners of Mandarin Chinese. *Abstract of the Society for the Neurobiology of Language*, 61.
  10. Lai, C.-H., Hsieh, S.-K., **Lee, C. L.**, Su, I.-W., Liu, T.-H., Lu, C.-R., Tsai, I.-N., Chou, T.-L. (2017). Lateralization differences on semantic processing between native speakers and proficient learners of Mandarin Chinese. *Abstract of the Society for the Neurobiology of Language*, 61.
  11. **Lee, C. L.**, Hsu, H. J., Tang, L., Yen, S.-H. (2017). Hemispheric differences in picking up nonadjacent dependencies in an artificial language. ILAS Workshop on Phonetics and Phonology, Oct. 24<sup>th</sup>, Taipei, Taiwan.
  12. Chen P.-H., Chen M.-H. , & **Lee, C. L.** (2017). Inter-hemispheric communication ability modulates the laterality of P600 responses to syntactic category violations in healthy young and older adults. *Psychophysiology*, 54, Supplement 1, S73.
  13. Huang, H.-C., Lu, L., Chiu, C.-H., **Lee, C. L.**, & Wu, Y.-T. (2017). Relationship between Motor Skills and Language Abilities in Toddlers with Autism Spectrum Disorder. Poster presented at the 19<sup>th</sup> Annual Taiwanese Society of Child and Adolescent Psychiatry meeting (TSCAP), June 11, Taipei, Taiwan
  14. Lin W.-T., Chen M.-H. , Goh J. O. S., & **Lee, C. L.** (2017). Linking white matter integrity to hemispheric processing of syntactic category information – an ERP and DTI study. Poster presented at the 11<sup>th</sup> International Conference on Cognitive Science (ICCS), Sep. 1<sup>st</sup>-3<sup>rd</sup>, Taipei, Taiwan.
  15. Weng Y.-L., Chen M.-H. , & **Lee, C. L.** (2017). Familial sinistrality modulates the degree of left-lateralization of the P600 responses during syntactic category processing: cross-linguistic evidence from Chinese. Poster presented at the 11<sup>th</sup> International Conference on Cognitive Science (ICCS), Sep. 1<sup>st</sup>-3<sup>rd</sup>, Taipei, Taiwan.
  16. Chen P.-H., Chen M.-H. , & **Lee, C. L.** (2017). Reduced leftward lateralization of P600 responses in syntactic category processing in healthy older adults. Poster presented at the 11<sup>th</sup> International Conference on Cognitive Science (ICCS), Sep. 1<sup>st</sup>-3<sup>rd</sup>, Taipei, Taiwan.
  17. Chang, Y., **Lee, C. L.**, & Schmid, H.-J. (2016). Mismatch Negativity Differences Reflect Community-based Conventionalization of Conceptual Metaphors in Taiwanese Mandarin. *Abstract of the Society for the Neurobiology of Language*, 188.
  18. Su, Y.-S., Chen, Y.-L., Chiu, Y.-S., Chiu, M.-J., Tseng, W.-Y., Tzen, K.-Y., Tang, P.-F., Chang, Y.-L., **Lee, C. L.** , Goh, J. (2016). Medial Prefrontal Function in MCI/SCD Individuals with Inconsistent Valuative Decisions. Poster presented at the OHBM Annual Meeting, Geneva, Switzerland.
  19. Tsai, Y.-T. & **Lee, C. L.** (2016). Age-related differences in comprehending unfamiliar metaphors. *Journal of Cognitive Neuroscience*, Supplement 1, 238.

20. Chen, P.-H., Chen, M.-H., Lu, C., Hsieh, S.-K., Chou, T.-L., Su, I.-W., **Lee, C. L.** (2016). Hemispheric differences in processing syntactic category information in second language. *Journal of Cognitive Neuroscience, Supplement 1*, 205.
21. **Lee, C. L.** (2015). An ERP investigation on the roles of left and right hemispheres in processing referential expressions. Oral presentation at the 3<sup>rd</sup> annual meeting of the Taiwan Society of Cognitive Neuroscience, Jan. 23<sup>rd</sup>, Taipei, Taiwan.
22. Payne, B.R., **Lee, C.L.**, & Federmeier, K. D. (2015). Single-Word Event-Related Brain Potentials Reveal Multiple Effects of Sentential Context on Lexical Processing. *Abstracts of the Psychonomic Society, Volume 20*, 267.
23. Leckey, M., **Lee, C.L.**, & Federmeier, K. D. (2015). The role of familial sinistrality on hemispheric differences in syntactic processing across the lifespan. *Abstract of the Society for the Neurobiology of Language*, 57.
24. Lu, T.-H. & **Lee, C.L.** (2015). Why is a piece of cake difficult for L2 learners?—An ERP investigation of processing nominal metaphors in L2. *Abstract of the Society for the Neurobiology of Language*, 249.
25. Shen, Z.-Y. & **Lee, C.L.** (2015). Hemispheric differences in processing Chinese referential expressions—an ERP investigation. *Abstract of the Society for the Neurobiology of Language*, 131.
26. Chen, M.-H. & **Lee, C.L.** (2015). Hemispheric differences in processing word class information—ERP evidence from Chinese. *Abstract of the Society for the Neurobiology of Language*, 212.
27. Pattamadilok, C., Denis-Noël, A., Lin, Y., Wu, D.H., & **Lee, C. L.** (2015). Influence of logographic and alphabetic writing systems on auditory information processing: The generalizability and stability issues. Poster submitted to *the 19<sup>th</sup> conference of the European Society for Cognitive Psychology*, Sep 17-20, Paphos, Cyprus.
28. Chang, Y., **Lee, C. L.**, & Schmid, H.-J. (2015). Your Chinese is Different from Mine? Conventionalization of Constructions as Indicated by Mismatch Negativity. Poster presented at *the 7<sup>th</sup> Mismatch Negativity Conference*, Sep 8-11, Leipzig, Germany.
29. Li, K. A., Zhou, J., **Lee, C. L.**, Tien Y. H., & Yeh, S. L. (2015). Does temporal integration of semantic information occur under visual crowding? Poster to be presented at *the 19<sup>th</sup> annual meeting of the Association for the Scientific Study of Consciousness (ASSC)*, July 7-10, Paris, France.
30. Chang, Y., **Lee, C. L.**, & Schmid, H.-J. (2014). Using mismatch negativity to investigate conventionalization and entrenchment of constructions. Paper presented at *the 8th International Conference on Construction Grammar (ICCG8)*, Sep. 3<sup>rd</sup>-6<sup>th</sup>, University of Osnabrück, Osnabrück, Germany.
31. Lai, C.H. and **Lee, C. L.** (2014) Aging and Individual differences in pronoun comprehension: an ERP investigation. *Abstract of the Society for the Neurobiology of Language*, 227.
32. Shen, Z.Y and **Lee, C. L.** (2014). The role of literal interpretation during novel metaphor comprehension—an ERP study. Oral presentation at *the 7th Conference on Language, Discourse, and Cognition*, May 3<sup>rd</sup>-4<sup>th</sup>, Taipei, Taiwan.

33. Lai, C.H and **Lee, C. L.** (2014). Age-related differences in processing Chinese pronouns—An ERP study. Poster presented at *the 7th Conference on Language, Discourse, and Cognition*, May 3<sup>rd</sup>-4<sup>th</sup>, Taipei, Taiwan.
34. Lai, C.H and **Lee, C. L.** (2014). Referential ambiguity and referential failure in Mandarin Chinese—an ERP study. *Journal of Cognitive Neuroscience, Supplement 1*, 247.
35. Zhou, J. F., Lee, C.L., and Yeh, S. L. (2013). Brain potentials reflect semantic processing of crowded words. *European Conference on Visual Perception*, Aug, 25<sup>th</sup>-29<sup>th</sup>, Bremen, Germany.
36. Chang, C.T., Lee, C.Y., **Lee, C.L.**, and Tsai, J.L. (2013). The role of syntactic category in lexical access: An ERP study of Chinese homograph. *Journal of Cognitive Neuroscience, Supplement 1*, 224.
37. **Lee, C. L.**, Huang, H.W., Federmeier, K.D., & Buxbaum, L.J. (2013). ERPs reveal faster activation of grasp than skilled use information during object processing. *Journal of Cognitive Neuroscience, Supplement 1*, 53.
38. Kalénine, S., **Lee, C. L.**, Middleton, E.L., Mirman, D., & Buxbaum, L.J. (2012). Impact of linguistic context on action and function information activation during object identification. Poster presented at the 30th International Congress of Psychology, May 22-27, Cape Town, South Africa.
39. **Lee, C. L.**, Stites, M., & Federmeier, K. D. (2012) Mind the unselected meaning: influences of semantic context on N400, sustained frontal negativity and reading times during ambiguity resolution. Oral presentation at the 52<sup>nd</sup> Annual Society for Psychophysiological Research Meeting .
40. **Lee, C. L.**, Mirman, D., and Buxbaum, L. J. (2012). Incidental and context responsive activation of function-based action representations during object identification—evidence from Apraxia. *Journal of Cognitive Neuroscience, Supplement 1*, 220.
41. Stites, M., **Lee, C. L.**, Federmeier, K. D., and Stine-Morrow, E. (2012). Effects of efficient fronto-temporal circuitry on lexical ambiguity resolution—converging evidence from cross-age comparisons in eye tracking and ERP data. *Journal of Cognitive Neuroscience, Supplement 1*, 210.
42. Stites, M., **Lee, C. L.**, Federmeier, K. D., and Stine-Morrow. (2011). Get to/the point: How older adults resolve ambiguity of noun/verb homographs. *Psychophysiology, 48, Supplement 1*, S54-S54.
43. **Lee, C. L.**, Middleton, E., Mirman, D., Kalénine, S., and Buxbaum, L. J. (2011). Eye gaze in action—effects of manipulation features and linguistic context on object identification. Poster presented at the 5<sup>th</sup> annual workshop on Concepts, Actions, and objects: Functional and Neural Perspectives (CAOs).
44. Federmeier, K. D. and **Lee, C. L.** (2010). Differential Age Effects on Lexical Ambiguity Resolution Mechanisms. Oral presentation at the 51st Annual Meeting of the Psychonomic Society.



45. Lee, C. L. and Federmeier, K. D. (2010). It's all in the family: brain asymmetry and syntactic processing. *Psychophysiology*, 47, Supplement 1, S36-S36.
46. Stites, M., Lee, C. L., Federmeier, K. D., Gao, X., and Stine-Morrow. (2010). Linking the eyes and the brain: ERP and eyetracking effects of on-line ambiguity resolution of noun/verb homographs. *Psychophysiology*, 47, Supplement 1, S37-S37.
47. Lee, C. L. and Federmeier, K. D. (2010). Age related changes in ambiguous text processing: an ERP study. Poster presented at the Cognitive Aging Conference.
48. Lee, C. L. and Federmeier, K. D. (2009). Effects of semantic and syntactic context on open-class words—comparing the old and the young. *Abstract of the Neurobiology of Language Conference Scientific Program*, 110.
49. Lee, C. L. and Federmeier, K. D. (2009). Hemispheric Differences in Word Class Expectancy—an Event Related Potential Study. *Psychophysiology*, 46, Supplement 1, S81.
50. Wlotko, E.W., Evans, K.M., Huang, H.W., Kandhadai, P., Lee, C.L., Federmeier, K.D. (2009). Hemispheric Asymmetries in Visual Processing of Verbal Material as Indexed by the Frontal P2. Poster presented at the 15<sup>th</sup> International Congress on Event-Related Potentials of the Brain.
51. Rosenfelt, L., Barkley, C., Kellogg, M.K., Kluender, R., Kutas, M., Federmeier, K., and Lee, C. L. (2009). No ERP Evidence for Automatic First-Pass Parsing. Oral presentation at the 22nd Annual Meeting of the CUNY Conference on Human Sentence Processing.
52. Lee, C. L. and Federmeier, K. D. (2009). Aging modulates top-down but not automatic processes during lexical ambiguity resolution: an ERP study. *Journal of Cognitive Neuroscience, Supplement 1*, 78.
53. Lee, C. L. and Federmeier, K. D. (2008). Wave-ering: An ERP study of syntactic and semantic context effects on ambiguity resolution for noun/verb homographs. *Psychophysiology*, 45, Supplement 1, S70.
54. Huang, H. W., Lee, C. L. and Federmeier, K. D. (2008). Imagine that! ERPs provide evidence for distinct hemispheric contributions to the processing of concrete and abstract concepts. *Psychophysiology*, 45, Supplement 1, S49.
55. Lee, C. L. and Federmeier, K. D. (2007). Hemispheric differences in syntactic modulation on the lexical ambiguity resolution—an event related potential study. *Psychophysiology*, 44, Supplement 1, S61.
56. Lee, C. L. and Federmeier, K. D. (2007). To watch, to see, and to differ: An event-related potential study of concreteness effects as a function of word class and lexical ambiguity. *Journal of Cognitive Neuroscience, Supplement 1*, 82.
57. Garnsey, S. M., Tse, C. Y., Lee, C. L., Dell, G. S., Fabiani, M., and Gratton, G. (2007). The Event-Related Optical Signal (Eros): A New Neuroimaging Tool For Language Processing Research. Oral presentation given at the 13th Annual Conference on Architectures and Mechanisms for Language Processing, August 24-27, Turku, Finland.

58. Tse, C. Y., Lee, C. L., Sullivan, J., Garnsey, S. M., Dell, G. S., Fabiani, M., and Gratton, G. (2007). Imaging Frontal and Temporal Cortices in Language Processes – an Event-Related Optical Signal (EROS) Study. *Human Brain Mapping, Supplement 1*, S39-S39.
59. Lee, C. L. and Federmeier, K. D. (2006). To mind the mind: An event-related potential study of word class and semantic ambiguity. *Journal of Cognitive Neuroscience, Supplement 1*, 93.
60. Tse, C. Y., Lee, C. L., Sullivan, J., Agrawal, A., Zarif, M., Garnsey, S. M., Dell, G. S., Fabiani, M., and Gratton, G. (2006). An Event-Related Optical signal (EROS) study of frontal and temporal cortices in processing semantic and syntactic anomaly during sentence comprehension. *Psychophysiology, 43, Supplement 1*, S99.
61. Huang, H. W., Lee, C. Y., Lee, C. L., Tsai, J. L., Hung, L., and Tzeng, J. L. (2005). An electrophysiological study of the orthographic neighborhood frequency effect in Chinese word recognition. *Journal of Cognitive Neuroscience, Supplement 1*.
62. Tsai, J. L., Lee, C. L., Lee, C. Y., Huang, H. W., Hung, L., and Tzeng, J. L. (2004). An Event-Related Potential study of interpreting Nouns and Verbs in reading Chinese sentences. *Journal of Cognitive Neuroscience, Supplement 1*.
63. Lee, C. Y., Huang, H. W., Lee, C. L., Tsai, J. L., Hung, L., and Tzeng, J. L. (2004). An Electrophysiological study of the orthographic neighborhood size effect in Chinese word recognition. *Journal of Cognitive Neuroscience, Supplement 1*.
64. Biq, Y. O. and Lee, C. L. (2004, May). Frequency, phonetic reduction, and gramaticalization: Na in Mandarin conversation. Paper presented in the 16th North American Conference on Chinese Linguistics (NACCL), Iowa city, Iowa, USA.
65. Biq, Y. O. and Lee, C. L. (2003). Frequency and phonetic reduction: a case study of Na in Mandarin Chinese. *Proceedings of the 7th Annual Conference on Chinese Language Instruction, Vol.1*, 31-41.
66. Lee, C. L., Hung, L., Tse, K. P., Lee, C. Y., Tsai, J. L., and Tzeng, J. L. (2002). Processing of Disyllabic Compound Words in Chinese Aphasia. Paper presented at the Tenth International Conference on Cognitive Processing of Chinese and Other Related Asian Languages (ICCPORAL2002), Dec.9-11, Taipei, Taiwan.
67. Lee, C. L. (2001). The Noun-Verb Problems in Chinese Aphasia-A Study From a Discourse Point of View. In Yuchau E. Hsiao (Ed), *Language and Cognition: proceedings of the First Cognitive Linguistics conference*. P356-374.

### Invited Addresses

- 10/2018 Special Symposium for the Anniversary of the Neurobiology and Cognitive Science Center, NTU. “Getting grammar in the ‘right’ way: hemispheric coordination for syntactic processing in healthy young and older adults”.
- 10/2018 Young Investigator speech for ICPEAL 17- CLDC 9 Joint conference, Taipei, Taiwan.
- 10/2017 ILAS Workshop on Phonetics and Phonology, Academia Sinica, Taipei, Taiwan, “Hemispheric differences in picking up nonadjacent dependencies in an artificial language”.

- 09/2017 National Taiwan University Interdisciplinary Seminar at the College of Liberal Arts, “Altered Network Architecture of Language Processing in Aging”.
- 05/2017 Aim for the Top University Project office, National Taiwan Normal University, “Neural and cognitive reprogramming for syntax-related language comprehension in healthy aging”.
- 05/2017 Institute of Learning Sciences and Technologies, National Tsing Hua University, “A tale of two sides for syntactic processing”.
- 12/2016 PhD Program in Cognitive Sciences, National Chung Cheng University, “What does the right hemisphere know about grammar?”
- 12/2016 Department of Chinese as a Second Language, National Taiwan Normal University, “Scaffolding mechanisms for second language learning”.
- 11/2016 Annual meeting of the Linguistic Society of Taiwan, “Brain asymmetry and syntactic processing”.
- 11/2016 Graduate Institute of Linguistics, National Chung Cheng University, “Neural-cognitive reprogramming for language comprehension in healthy aging”.
- 08/2016 Aging, MCI and Language Symposium at the Department of Linguistics and Translation, City University of Hong Kong, “Neurophysiological Aging and the Comprehending Brain”.
- 06/2016 Taipei Public Library (main library and Huludu library), “Language and Aging: How Reading Activate Your Brains.”台北市樂齡中心葫蘆堵分館以及總館, “語言與老化：讓閱讀幫你動動腦。”
- 04/2016 Indigenous Language Research and Development Center, Taipei, Taiwan, “Making sense of language as we age”.
- 03/2015 NTU-IBMP (Integrated Brain and Mind Project), “Mapping language network—implications from basic science to clinical applications”.
- 12/2013 The 1<sup>st</sup> International Workshop on Cognitive Aging, National Chung Cheng University, “Differential effects of aging on meaning processing”.
- 12/2013 Biophysics club at the National Chung Hsing University, “Making sense of language as we age”.
- 10/2013 Institute of Cognitive Neuroscience at the National Central University, “Making sense—effects of context on meaning processing”.
- 03/2013 The Integrated Brain and Mind Project Meeting at the National Taiwan University, “How the brain makes sense: neural correlates of language and conceptual processing”.
- 12/2012 6<sup>th</sup> Linguistic Salon held by the student committee of the Linguistics Society in Taiwan, “看腦波，讀語言—以語言歧義的理解為例”.
- 06/2012 Topics in Rehabilitation Science series at the Albert Einstein Medical Center, “Disrupted access to action knowledge in stroke patients with Apraxia”.
- 04/2012 Cognitive Area Talk Series at the Moss Rehabilitation Research Institute, “Is limb apraxia a disorder of refractory access to “action semantics”?”.
- 04/2012 The Center for Cognitive Neuroscience Colloquium Series at the University of Pennsylvania, “Putting Words Into Action: Understanding Object-Related Action Knowledge in Healthy and Damaged Brains”.

- 01/2012 The Phonetics, Phonology, and Speech Science Research Group at the Institute of Linguistics, Academia Sinica, Taiwan, “To mind the mind—understanding lexical ambiguity with constraints of context, top-down resources, and aging”.
- 09/2011 The Laboratory for Cognition and Neural Stimulation in the Neurology Department at the University of Pennsylvania, “Eye gaze in action—effects of motor features and linguistic context on object identification”.
- 12/2010 Cognitive Area Talk Series at the Moss Rehabilitation Research Institute, “Semantic priming of action knowledge”.
- 06/2010 Cognition and Action Laboratory at the Moss Rehabilitation Research Institute, “From words to senses—ERP studies on the processing of concrete and abstract concepts”.
- 06/2010 Cognitive Neurology/Neuropsychology group in the Neurology Department at the Johns Hopkins University, “To mind -- understanding lexical ambiguity with constraints of context, top-down resources, and aging”.
- 06/2010 Laboratory of Personality and Cognition at the National Institute on Aging, “Differential age effects on language processing mechanisms”.
- 06/2010 Marta Kutas Cognitive Electrophysiology Lab at the University of California, San Diego, “From words to senses—ERP studies on the processing of concrete and abstract concepts”.
- 04/2010 Knowledge for All lecture series at University of Illinois, “To mind the mind—understanding lexical ambiguity with constraints of context, top-down resources, and aging”.
- 03/2010 Cognitive Brownbag series at the Department of Psychology, University of Illinois, “Brain asymmetry and syntactic processing—accounting for familial handedness”.
- 03/2009 Cognitive Brain Mapping Group series at Northwestern University, “Top-down executive and automatic processes during lexical ambiguity resolution for noun/verb homographs”.
- 02/2009 Cognitive Brownbag series at the Department of Psychology, University of Illinois, “Aging modulates top-down but not automatic processes during lexical ambiguity resolution: an ERP study”.
- 09/2007 Language Processing Brownbag series at University of Illinois, “To watch, to see, and to differ: An event-related potential study of concreteness effects as a function of word class and lexical ambiguity”.
- 10/2005 Brain and Cognition Brownbag series at University of Illinois, “To mind the mind: An event-related potential study of word class and semantic ambiguity”.
- 08/2005 Cognitive Brownbag series at the Department of Psychology, University of Illinois, “To mind the mind: An event-related potential study of word class and semantic ambiguity”.

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### **Professional Affiliations**

Society for Psychophysiological Research (current)  
 Society for the Neurobiology of Language (current)

Taiwan Society of Cognitive Neuroscience (current)  
Linguistic Society of Taiwan (current)  
Cognitive Neuroscience Society (past)  
Psychonomic Society (past)  
Association for Psychological Science (past)

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## Scientific Reviewing

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### *Ad hoc Journal Reviews*

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Aging, Neuropsychology and Cognition	<i>Journal of Neurolinguistics</i>
<i>Brain and Language</i>	<i>Journal of Psychophysiology</i>
<i>Brain Research</i>	<i>Neuropsychologia</i>
<i>BMC Neuroscience</i>	<i>Neuropsychology</i>
<i>Brain Imaging and Behavior</i>	<i>Neurorehabilitation and Neural repair</i>
<i>Cognitive, Affective, &amp; Behavioral Neuroscience</i>	<i>Neuroscience</i>
<i>Cerebral Cortex</i>	<i>Neuropsychology</i>
<i>Cognition</i>	<i>Psychophysiology</i>
<i>Concursive: Studies in Linguistics</i>	<i>Scientific Reports</i>
<i>Chinese Journal of Psychology</i>	<i>Taiwan Journal of Linguistics</i>
<i>Experimental Brain Research</i>	
<i>Frontiers in Psychology</i>	<b>Review Editor for:</b>
<i>Human Brain Mapping</i>	<i>Frontiers in Human Neuroscience</i>
<i>Journal of Cognitive Psychology</i>	<i>Frontiers in Language Sciences</i>
<i>Journal of Experimental Psychology:</i>	
<i>Learning, Memory, and Cognition</i>	<b>Consulting Editor for:</b>
<i>Journal of Memory and Language</i>	<i>Psychophysiology (2017-2020)</i>

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### *Ad hoc Grant Reviews*

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*Taiwan National Science Council: 2013; 2014; 2015; 2016; 2017*  
*DAAD P.R.I.M.E.: 2017*  
*UK Medical Research Council: 2014*  
*NTU and European Union "Multilingual and Culture Fellowship": 2013-2014*  
*Academia Sinica Fellowship for Postdoctoral Researcher: 2013*

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### *Ad hoc Reviews for Conferences or Awards*

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*International Conference on Cognitive Science (ICCS): 2017*  
*The annual meeting of the Society for Neurobiology of Language: 2016, 2017, 2018*  
*The annual meeting of the Society for Psychophysiological Research: 2016*  
*The annual meeting of the Taiwan Society of Cognitive Neuroscience: 2016, 2017*  
*The Conference on Language, Discourse, and Cognition: 2014; 2015; 2018*  
*MA/PhD Thesis of the Year Award, the Linguistic Society of Taiwan: 2013; 2014; 2016*

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## Professional Service

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### *Committees for Conferences*

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Organization committee for *the Conference on Language, Discourse, and Cognition (CLDC): 2014; 2015; 2018*

Program committee for:

*Annual Meeting of Society for Psychophysiological Research (SPR): 2016*

*China National Conference on Computational Linguistics (CCL). Nanjing, Jiangsu, China. Oct. 13<sup>th</sup>-15<sup>th</sup>, 2017*

*Workshop on Linguistic and Neuro-Cognitive Resources (LiNCR). Miyazaki, Japan. May 8<sup>th</sup>, 2018,*

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*University and Departmental Service*

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Program committee, The Neurobiology and Cognitive Science: 2012 till now.

Election committee for representatives for University/College Matters Meetings and Academic Evaluation Meetings: 2015

Library committee for the College of Liberal Arts: 2015-2016.

Organizing committee for the theme book fair for Neurolinguistics at NTU: 2016

Search committee, Graduate Institute of Linguistics, NTU: 2013, 2014.

Ph.D Entrance Interview Committee: 2014-2016.

M.A. Entrance Exam maker: 2012, 2013, 2014, 2017, 2018

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**Mentoring, Graduate Students**

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*Current*

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<b>Trainee Name (Dates of Training )</b>	<b>Program Affiliation</b> GIL: Graduate Institute of Linguistics GIBMS: Graduate Institute of Brain and Mind Sciences NTU: National Taiwan University
Po Heng Chen (Fall, 2016- )	Ph.D., GIL, NTU
Hsuan-Huey Yen (Fall, 2016- )	MA, GIL, NTU
Nai-Wen Chang (Fall, 2016- )	MA, GIL, NTU
Wan-Ting Lin (Fall, 2016- )	MA, GIBMS, NTU
Chi Yeh (Spr., 2015 - )	MA, GIL, NTU
Ching-Hsuan TSAO (Spr., 2015 - )	MA, GIL, NTU
Ling-Ling Wei (Fall, 2015 - )	MA, Cross-Culture Studies, Fu Jen Catholic Univ.
Yan-Lin Pan (Spr, 2015 - )	MA, Teaching Chinese as a Second Language, NTU
Yi-chun Chen (Fall, 2013 - )	MA, GIBMS, NTU

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*Past*

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<b>Trainee Name (Dates of Training)</b>	<b>Title of Research Project, Program Affiliation</b>
Ling Tang (06/2014 –10/2017)	Hemispheric differences in statistical language learning of no-adjacent dependencies: Evidence from Event-Related Brain Potentials. MA, GIL, NTU
Tzu-Yin Chen (02/2016-03/2016)	Visiting student, Tokyo Univ., Language and Information Science
Chuyu Huang (02/2016-03/2016)	Visiting student, Tokyo Univ., Language and Information Science

Yu-Chun Chang (06/2013 –06/2016)	The Entrenchment and Conventionalization of Linguistic Knowledge: A Neurolinguistic Perspective. Ph.D. in Linguistics, Ludwig-Maximilians Universität, München
Min-shin Chen (09/2013 –03/2016)	Brain Asymmetry in Syntactic Processing of Word Class in Chinese: An ERP Study. MA, GIL, NTU
Ling-Chen Chou (09/2012 –02/2016)	An Event-Related Potential Study for the Effect of Emotional Expectation in Sentence Processing. MA, GIL, NTU
Yi-Ting Tsai (09/2013 – 01/2016)	Age-related differences in comprehending unfamiliar metaphors. MA, GIL, NTU
Evangeline Fung (Summer 2015)	Summer intern, Hong Kong Univ. of Science and Technology
Tzu-hung Lu (09/2012 – 08/2015)	The Comprehension of English Metaphors by Chinese EFL Learners—An ERP Study. MA, GIL, NTU
Chia-ho Lai (09/2012 – 02/2015)	Aging and individual differences in Chinese pronoun comprehension: An ERP study. MA, GIBMS, NTU
Laura Rivière (Fall, 2013-Spr., 2014)	Exchange student, Aix Marseille Université, France
Zihyu Shen (09/2012 – 05/2014)	Joint influences of metaphor familiarity and individual’s mental imagery ability on the processing styles of action metaphor comprehension: An ERP study. MA, GIL, NTU
Ambre Denis (Fall, 2013)	Exchange student, Aix Marseille Université, France

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*Thesis committees*

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Chia-Chin Yin (2018/02/09)	The Effects of Working Memory Capacity on Metaphorical Language Comprehension in English-Mandarin Bilingual Minds: An fMRI Study. M.A. in Linguistics, National Ching-Hua University.
Jia-Min Bai (2017/07/04)	The Use of Social Cues in the Judgment of Word Category: A Study of Preschool Children. M.A. in Special Education, National Ksohsiung Normal University.
Yu-Wen Liu (2017/02/22)	Exploring Topics in Online Discourses on Depression. M.A. in Linguistics, NTU
Evan Tsao (2016/8/4)	Beyond Situation Specific Factors: FLA in Taiwanese CLT-Based Classes. M.A. in English, Fu Jen University.
Wan-Chi Huang (2016/07/20)	Effectiveness of Family-Centered Intervention Program on Neurobehavioral and Neurophysiological Functions in Preterm Infants with Very Low Birth Weight. M.A. in Physical Therapy, NTU.
Hsi-Wen Huang (2016/06/22)	Inhibitory Control of Executive Function and School Performance in School-Aged Preterm and Term Children. M.A. in Physical Therapy, NTU.

Yin-Dir Hwang (2016/01/27)	Feeling a little uneasy may improve decision making: Impacts of emotional experiences on prediction errors evidenced from model fitting and feedback-related negativity. M. A. in Psychology, NTU.
Chan-Chia Hsu (2016/01/19)	Lexical Bundles in Chinese. Ph.D. in Linguistics, NTU.
Yung-Hsaun Tien (2016/01/12)	Role of Consciousness in Temporal Integration of Semantic Information. M.A. in Psychology, NTU.
Yi-Lun Weng (2016/1/7)	The Influence of Contextual Constraint and L2 Proficiency on Bilingual Lexical Access: Evidence fro Eye Movements of Japanese-Chinese Bilinguals. M.A. in Linguistics, National Chengchi University.
Bing-Tsiong Li (2015/4/8)	Revisiting Semantic Preview Benefit: Evidence from Processing of Chinese Two-Character Compounds. M.A. in Linguistics, National Chengchi University.
Keng-Yu Lin (2014/10/02)	The Role of Semantic Features in Processing Basic-Level Concepts in Mandarin Chinese: an ERP Study. MA. in English, National Taiwan Normal University.
Po-Heng Chen (2014/07/03)	The Influence of Syntactic Category and Semantic Constraints on Lexical Ambiguity Resolution: An Eye-Movement Study of Processing Chinese Homographs. M.A. in Linguistics, National Cheng-Chi University.
Ya-Wen Hsu (2014/05/27)	Verb-object Compound Processing in Mandarin. MA. in English, National Taiwan Normal University.
Chia-Hsuan Liao (2013/04/19)	Unexpected Ending in Sentence Processing: An ERP study. MA. in English, National Taiwan Normal University.
San-Yuan Lin (2013/01/25)	Exploring the processing unit of consciousness by inter-ocular unconscious grouping and object-based attention. Ph.D. in Psychology, NTU.

### **Mentoring, Undergraduate Students**

**LSA Summer Institute (2013):** Zi-Zhun, Chen, Xiao-Xuan, Hong, Weo-Long Weng  
**Neurobiology and Cognitive Science summer program (2017):** Yun Zhuang, Wan-Chia Tsai

**Independent studies:** Xiang-Ping Wang (2016), Chia-Yu Liu (2016), Hsiao-Ching Huang(2016),

### **Teaching Experience**

2013-now (yearly)	Introduction to Event-Related Potential (ERP) data collection and analysis (LING7428)
2012-15, 2018	Electrophysiology of language processing/Introduction to Electrophysiology of language processing (LING7427/7431)



2013, 2016, 2018 Seminar on Neurolinguistics (LING7430)

2014, 2017 Aging and language lateralization in the brain (LING7433)

2013, 2015 Research Methodology (II) (LING7011)

2015- 16 (yearly) Introduction to Linguistics (LING5700)

2016 Statistics in Language Studies (LING7008)

2012- 14 (yearly) Basic Issues in Cognitive Sciences (LING8000/GIBMS7004)

2012- 14 (yearly) Introduction to Psycholinguistics (LING7401)

2014 Seminar on Language Lateralization (LING7434)

2014 Guest lecture for Advanced Cognitive Neuroscience (PSY7239).  
Topic: Lateralization

2013 Instructor for Linguistic Society of Taiwan Summer Institute

2012 Research Methodology (IV) (LING7013)

2012 Topics on Neurolinguistic Research (LING7429)

2008 Teaching assistant for UIUC Psychology: Evolution of Mind

2007 Teaching assistant and lab session instructor for UIUC Psychology:  
Laboratory in Cognitive Psychology

2004- 05 Teaching assistant for UIUC Psychology: Introduction to Cognitive  
Psychology.

2004 Guest Lecturer for UIUC Psychology: Introduction to Cognitive  
Psychology. Topic: “Knowledge and Categories”