Ya-Ping Chen 陳雅苹

Contact Information

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Address Centre for Cognitive Neuroscience, Paris Lodron University Salzburg
Hellbrunnerstr. 34, 5020 Salzburg, Austria

Education

Spring 2019 – Present
PhD student in Cognitive Neuroscience
Centre for Cognitive Neuroscience, Paris Lodron University Salzburg
Advisor: Nathan Weisz, Ph.D., Anne Hauswald, Ph.D.
Research topic: Temporal evolution of vocoded speech processing

Fall 2016 – Spring 2018
Master of Science in Psychology (mainly trained in Cognitive Neuroscience)
Department of Psychology, College of Science, National Taiwan University (NTU)
Advisor: Bo-Cheng Kuo, Ph.D.
Thesis title: Neural correlates for location-shared and feature-bound representations in visual working memory: An MEG study

Fall 2006 – Spring 2010
Bachelor of Science in Occupational Therapy
School of Occupational Therapy, College of Medicine, NTU

Research Experience

Aug 2018 – Jan 2019
Research Assistant

Brain and Cognition Laboratory, Department of Psychology, NTU
Advisor: Bo-Cheng Kuo, Ph.D.

- Investigated feature-bound representations in working memory using MEG
  - Analyzed MEG data

Aug 2014 – Jul 2016
Research Assistant

Laboratory of Cognitive Neuroscience, Institute of Linguistics, Academia Sinica
Advisor: Chih-Mao Huang, Ph.D., Hsu-Wen Huang, Ph.D., Ovid Jyh-Lang Tzeng, Ph.D.

- Investigated the differences in neural activities between young and older adults in working memory tasks
  - Designed and executed the MEG and MRI experiments
  - Analyzed and interpreted *f*MRI data

Oct 2010 – Jul 2014
Research Assistant

Pain Management Center, Taipei Medical University-Shuang Ho Hospital &
Laboratory of Human Cognition, School of Occupational Therapy, NTU
Advisor: Chi-Lun Rau, M.D., Ph.D., Chien-Te Wu, Ph.D.

- Investigated the neural mechanism in sensory discrimination and sensory rehabilitation on chronic pain patients using *f*MRI experiments
- Developed a new tele-assessment device for stroke patients
- Explored attentional blink phenomenon in schizophrenia patients

Publications

Journal Article

- Schmidt F, **Chen YP**, Keitel A, Rösch S, Hannemann R, Serman M, Hauswald A, Weisz, N. (2023). Neural speech tracking shifts from the syllabic to the modulation rate of speech as intelligibility decreases. *Psychophysiology*, e14363.
- **Chen YP**, Schmidt F, Keitel A, Rösch S, Hauswald A, Weisz, N. (2023). Speech intelligibility changes the temporal evolution of neural speech tracking. *NeuroImage*, 119894.
- Hauswald, A, Keitel, A, **Chen, YP**, Rösch, S, Weisz, N. Degradation levels of continuous speech affect neural speech tracking and alpha power differently. *Eur J Neurosci*. 2020; 00: 1– 15.
- Chen FT, **Chen YP**, Schneider S, Kao SC, Huang CM, Chang YK. (2019). Effects of exercise modes on neural processing of working memory in late middle-aged adults: An fMRI study. *Frontiers in Aging Neuroscience, 11*, 224.
- Fan YT, Fang YW, **Chen YP**, Tzeng OJL, Huang HW, Huang CM. (2018). Aging, cognition, and the brain: Effects of age-related variation in white matter integrity on neuropsychological function. *Aging and Mental Health, 10*, 1-9.
- Wang HLS, Rau CL, Li YM, **Chen YP**, Yu R. (2015). Disrupted thalamic resting-state functional networks in schizophrenia. *Frontiers in Behavioral Neuroscience, 9*, 45.
- Wang HL, **Chen YP**, Rau CL, Yu CH. (2014). An interactive wireless communication system for visually impaired people using city bus transport. *International Journal of Environmental Research and Public Health*, *11*, 4560-4571.
- Rau CL, **Chen YP**, Lai JS, Chen SC, Kuo TS, Jaw FS, Luh JJ. (2013). Low-cost tele-assessment system for home-based evaluation of reaching ability following stroke. *Telemedicine and e-Health*, *19*, 973-978.
- Rau CL, **Chen YP**, Lin CY, Liou TH. (2012). [Preliminary Study of Disability Special Medical Clinic Initiative in Taiwan]. *Journal of Disability Research*, *10*, 252-264.

Poster and Talk

- **Chen YP***, Neff P*, Leske S, Wong DDE, Peter N, Obleser J, Kleinjung T, Dimitrijevic A, Dalal S, Weisz N. (2022). Cochlear implantation for sigle-sided deafness improves speech perception in both CI and non-CI ears: A longitudinal EEG study. **Poster Presentation.** Salzburg Mind Brain Annual Meeting (SAMBA), Salzburg, Austria.
- **Chen YP.** (2022). How do human beings process degraded speech? **Talk.** University System of Taiwan, Taipei, Taiwan.
- **Chen YP.** (2022). How do human beings process degraded speech? **Talk.** Toronto Auditory Research Group (TARG), Toronto, Canada.
- **Chen YP**, Schmidt F, Keitel A, Rösch S, Hauswald A, & Weisz, N. (2022). Speech intelligibility changes the temporal evolution of neural speech tracking. **Poster Presentation.** Society for Neuroscience Annual Meeting (SfN), San Diego, California, USA.
- **Chen YP***, Neff P*, Leske S, Wong DDE, Peter N, Obleser J, Kleinjung T, Dimitrijevic A, Dalal S, Weisz N. (2022). Cochlear implantation for sigle-sided deafness improves speech perception in both CI and non-CI ears: A longitudinal EEG study. **Poster Presentation.** Advances and Perspectives in Auditory Neuroscience (APAN), San Diego, California, USA.
- **Chen YP**, Schmidt F, Keitel A, Rösch S, Hauswald A, Weisz N. (2020) Neural temporal dynamics of continuous degraded speech processing. **Poster Presentation.** Advances and Perspectives in Auditory Neuroscience (APAN), online virtual meeting.
- **Chen YP**, Saiki J, Kuo BC. (2019). Retrospective searching for feature binding of color and letter from within visual working memory representations. **Poster Presentation.** Annual Meeting of the Organization for Human Brain Mapping (OHBM), Rome, Italy.
- **Chen YP** & Kuo BC. (2017). The influences of selection history on working memory: An EEG study. **Poster Presentation.** International Conference for Cognitive Neuroscience (ICON), Amsterdam, Netherlands.
- **Chen YP**, Fang YW, Lin CP, Tzeng OJL, Huang HW, Huang CM. (2016). Age-related and individual differences in the neural correlates of spatial and temporal information in working memory. **Poster Presentation**. Annual Meeting of Cognitive Neuroscience Society (CNS), New York, New York.
- **Chen YP**, Fang YW, Lin CP, Tzeng OJL, Huang HW, Huang CM. (2016). Age-related differences in working memory for order information: An fMRI study. **Poster Presentation.** Annual Meeting of Taiwan Society of Cognitive Neuroscience Society, Taipei, Taiwan.
- **Chen YP**, Fang YW, Lin CP, Tzeng OJL, Huang HW, Huang CM. (2015). The neural correlates of working memory for temporal order information: An fMRI study. **Poster Presentation**. Annual Meeting of Society for Neuroscience (SfN), Chicago, Illinois.
- Wong J, **Chen YP**, Gau SF, Chien YL, VanRullen R, Wu CT. (2013). Atypical visio-temporal processing in Schizophrenia and Autism Spectrum Disorders revealed by the continuous wagon wheel illusion. **Poster Presentation**. Annual Meeting of Vision Science Society (VSS), Naples, Florida.
- **Chen YP**, Chen PC. (2010). Effects of muscle strengthening on activities of daily living in Guillain-Barre syndrome: A single case study. **Talk.** Occupational Therapists Union of the Republic of China Conference, Tainan, Taiwan.

Teaching Experience

Fall 2017-
Spring 2018
Teaching Assistant
Department of Psychology, College of Science, NTU
Methods of Psychological Experiments
Lectured basic Matlab programming and Psychtoolbox one hour a week, graded homework programs written in Matlab, and administered the course website

Fall 2017-
Spring 2018
Teaching Assistant
Department of Foreign Languages and Literatures, College of Liberal Arts, NTU
German (I)
Answered students' questions, graded homework, midterm, and final oral exams

Jun 2017
Instructor
Department of Bio-Industry Communication and Development, NTU
Full responsibility for a 4-hour training course in Psychtoolbox

Spring 2017
Teaching Assistant
Department of Psychology, College of Science, NTU
Freshman Seminar on Psychology
Held discussions sections after weekly talks and administered course website

Fall 2016
Teaching Assistant
Department of Psychology, College of Science, NTU
Seminar on General Psychology
Held discussions according to specific topics every week, graded midterm and final exams, and held discussions after exams

Dec 2015
Instructor
Laboratory of Cognitive Neuroscience, Institute of Linguistics, Academia Sinica
Full responsibility for a 4-hour course for ROI analysis of fMRI data with MarsBaR

Jun 2013
Instructor
Department of Special Education, National Taiwan Normal University
Lectured analysis procedure of fMRI data with SPM8 in a three-day workshop for graduate students

Academic Honors and Awards

Travel grant from Ministry of Science and Technology, Taiwan, 2017
- To present at ICON 2017 at Amsterdam (NTD$ 48,000)

Travel grant from Taipei Medical University, 2016
- To present at CNS 2016 at New York (NTD$ 52,461)

Presidential Award, Fall 2009 & Spring 2010
- Awarded to the top 5% students in their class each semester

NTU Outstanding College Youth, 2010
- The most prestigious honor to graduate and college students for outstanding academic performance and social contribution in the university each year

Personal Skills and Competences

Computer
MATLAB (Psychtoolbox, SPM, FieldTrip), R, Python, Presentation, E-Prime

Language
Mandarin (native fluency), English (good fluency), German (basic fluency)