

Curriculum Vitae

CHING-I LU, PhD

Taipei JingMei Girls Senior High School
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Volunteer Adjunct Faculty, Department of Communication Sciences and Disorders in Wayne State University, Detroit, Michigan
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Education Background

Wayne State University Ph.D., Department of Communication Sciences and Disorders (CSD)	Detroit, MI 2007-2012
National Taiwan University M. S., Department of Psychology	Taipei, Taiwan 2001-2004
National Taiwan Normal University M. A., Department of Music Major: Conducting	Taipei, Taiwan 1994-1996
National Taiwan Normal University B. A., Department of Music Major: Double Bass	Taipei, Taiwan 1989-1992

Postgraduate training

MTA: Introduction to Programming Using Python - Certified Issuer: Microsoft **2019**

**NMR Center and the Athinoula A. Martinos Center for Biomedical Imaging,
Massachusetts General Hospital (MGH)**

- Fellowship Program of Functional MRI (June 26-30) **2006**

Faculty Appointments

[Wayne State University](https://clasprofiles.wayne.edu/profile/du1460) <https://clasprofiles.wayne.edu/profile/du1460>

- Volunteer Adjunct Faculty, Communication Sciences and Disorders **2013~present**

Taipei Veterans General Hospital, Taipei, Taiwan

- Volunteer Adjunct Researcher @ Department of Medicine and Education **2013~present**

Taipei Municipal University of Education, Taipei, Taiwan

- Adjunct Assistant Professor@ Department of Psychology and Counseling **2013**

Major Professional Society

International Society for Musical Education **2016 ~ present**

Service

Coordinating future International exchange program between Communication Sciences and Disorders @ WSU and Department of Speech Language Pathology and Audiology @ Chung Shan Medical University, Taichung, Taiwan **2016 ~ present**

Scholar Service

Service of Peer Review Journal- Language Learning **June, 2019**

- Ad Hoc Reviewer

Service of Peer Review Journal- Frontiers in Psychology, section Auditory Cognitive Neuroscience **July, 2017**

- Ad Hoc Reviewer

Service of Peer Review Journal- Psychology of Music **March, 2017**

- Ad Hoc Reviewer

Service of Peer Review Journal- Psychology of Music **May, 2016**

- Ad Hoc Reviewer

Teaching

Full-Time Senior High School Music Teacher **1993- 2007;2010~present**

Taipei Jingmei Girls Senior High School, Taipei, Taiwan
Taught 16 classes per week, including Music, Digital Art, Multimedia music, Metaverse, ,and so on.

Lecturer (Undergraduate and Graduate levels) **2013**

Taipei Municipal University of Education, Department of Psychology and Counseling, Taipei, Taiwan

- PSY 5050 Physiological Psychology (2 hours per week)

Instructor (Graduate and Medical students, Residents, and Faculties) **2006**

College of Medicine, National Taiwan University Hospital, Taiwan

- Clinical Functional MRI Workshop_SPM2 analysis

Teaching @ Wayne State University

Guest Lecturer**2008- 2010****Department of Communication Sciences and Disorders**

- SLP 7660 Neuromuscular Speech Disorders and AAC
- SLP 7680 Acquired Linguistic and Cognitive Disorders in Adults
- Total 10 hours

Developed Teaching Materials**2008****Department of Communication Sciences and Disorders**

- SLP 8390 Pedagogy: prepared materials for a college-level course in neuroscience

Publications

Peer-Review Publications

- Lu, C.I., & Greenwald, M., Lin, Y. Y. & Bowyer, S. M. (2022).** Music, Math and Working Memory: MEG Mapping of Brain Activation in Musicians. *Front. Hum. Neurosci.*, 16 May 2022 / <https://doi.org/10.3389/fnhum.2022.866256>.
- Lu, C.I., Greenwald, M.L., Lin, Y., & Bowyer, S.M. (2021).** Musical transposing versus sight-reading: Mapping brain activation with Magnetoencephalography (MEG). *Psychology of Music*, 49 (3), 581-599. doi.org/10.1177/0305735619883692
- Lu, C. I., Greenwald, M., Lin, Y. Y. & Bowyer, S. (2019).** Reading musical notation versus English letters: Mapping brain activation with MEG. *Psychology of Music*, 47 (2), 255-269. <https://doi.org/10.1177/0305735617744886>
- Wu, W. C., Chuang, W. C., & Lu, C. I. (2018).** A Collaborative Action Research of Music Appreciation Assessment for Students at a Senior High School in Taiwan. *Journal of National Taichung University: Education*. 32 (1), 79-109.
- Lu, C.I., & Greenwald, M., Lin, Y. Y. & Bowyer, S. M. (2017).** Reading musical notation versus English letters: Mapping brain activation with MEG *Psychology of Music (Submitted)*.
- Lu, C.I., & Greenwald, M. (2016).** Reading and working memory in adults with or without formal musical training: Musical and lexical tone. *Psychology of Music*, 44 (3), 369-387.

Poster Presentation

- Lu, C. I. (December, 13-14, 2019).** *Models of Music Therapy based on Cognitive Neuropsychology Approach*. Oral presented at the annual meeting of the [International Workshop on Computer Music and Audio Technology](#), Hsinchu, Taiwan.
- Davis, B., Lu, C. I. & Greenwald, M. (November 9-11, 2017).** *What is Normal? Normative Data for Healthy Older Adults Learning New Verbal Material*. Poster presented at the annual meeting of the [American- Speech-Language-Hearing Association](#), Los Angeles, California.

- Davis, B., **Lu, C. I.** & Greenwald, M. (March 23-25, 2017). *Normative Learning Data for Healthy Older Adults Performing a Novel Verbal Task*. Poster presented at the annual meeting of the Michigan- Speech-Language-Hearing Association, Troy, Michigan.
- Meli, E., Manfre, J., Suntres, S., Atkinson, D., Meehan, M., Parrish, J., **Lu, C. I.**, and Greenwald, M. (April 21-23, 2016). *Contrasting Methods for Training Verbal Names in Healthy Adults*. Poster presented at the annual meeting of the Michigan- Speech-Language-Hearing Association, Grand Rapids, Michigan.
- Lu, C. I.**, Greenwald, M. (Nov. 14-18, 2012). *Musical Training Facilitates Reading of Mandarin Chinese*. Poster presented at the annual meeting of the American Speech-Language-Hearing Association, Atlanta, Georgia.
- Greenwald, M., **Lu, C. I.**, Bowyer, S. (Nov. 17-20, 2011). *Magnetoencephalography (MEG) Analyses of Lexical Decision in Developmental Dyslexia*. Poster presented at the annual meeting of the American Speech-Language-Hearing Association, San Diego, California.
- Lu, C. I.**, Greenwald, M., Bowyer, S. (Jun. 06-10, 2010). *Brain activation during letter sounding and silent transposing of musical notation: A MEG study*. Poster presented at the 16th Annual Meeting of the Organization for Human Brain Mapping, Barcelona, Spain.
- Lu, C. I.**, Greenwald, M., Bowyer, S. (Nov. 18-22, 2009). *Patterns of Brain Activation During Silent Transposing of Musical Notation*. Poster presented at the annual meeting of the American Speech-Language-Hearing Association in New Orleans, Louisiana.
- Lu, C. I.**, Daniels, D., Greenwald, M. (Mar. 25-27, 2009). *Factors Affecting Fluency in Bilingual Speakers: A Review*. Poster presented at the annual meeting of the Michigan- Speech-Language-Hearing Association, Dearborn, Michigan.
- Lu, C. I.**, Greenwald, M. (Nov. 20-22, 2008). *A Cognitive Model of Music & Language*. Poster presented at the annual meeting of the American Speech-Language-Hearing Association, Chicago, Illinois.
- Wu, C.Y., Peng, Y. J., **Lu, C. I.**, Huang, S. C., Tseng, W.Y.I., Chen, S.H.A. (Feb. 6-9, 2008). *Activation of the Middle Frontal Gyrus (BA9) in Phonological Processing in Left-handed Chinese Speakers*. Poster presented at the 36th Annual Meeting of the International Neuropsychological Society, Waikoloa, Hawaii.
- Peng, Y. J., Wu, C.Y., **Lu, C. I.**, Yu, J., Tseng, W.Y.I., Chen, S.H.A. (Feb. 6-9, 2008). *Mapping Semantic and Phonological Processing in Chinese Left-handers using fMRI*. Poster presented at the 36th Annual Meeting of the International Neuropsychological Society, Waikoloa, Hawaii.
- Wang, H. L., Chiang, W. Y., Huang, S. C., Yeh, F.C., Peng, Y. J., **Lu, C. I.**, Wu, C.Y., Chen, S.H.A., Tseng, W.Y.I. (Nov. 3-7, 2007). *Functional lateralization of language and asymmetric connectivity of arcuate fasciculus: A study using combined fmri and diffusion*

spectrum imaging. Poster presented at the Annual Meeting of the Society for Neuroscience, San Diego, California.

Chen, S.H. A., Aston, J. A., Su, H. R., Chen, P. H., **Lu, C.I.**, Yu, J.S., Liou, M., Tseng, W.Y. I. (Feb. 7-10, 2007). *Reproducibility of Activations for Two Standardized Chinese Language Tasks for Use in a Clinical fMRI Battery*. Poster presented at the 35th Annual Meeting of the International Neuropsychological Society, Portland, Oregon.

Chen, S.H. A., Peng, Y.-J., Wu, C.-Y., Chen, P.H., Yu, J.S., **Lu, C.I.**, Tseng, W.Y. I. (Dec. 9-10, 2006). *Hemispheric Dominance in Left-handers for two fMRI Language tasks: Preliminary Findings*. Poster presented at the 2006 NTU International Neuroscience Symposium: Advanced Neuroimaging, Taipei, Taiwan

Lu, C. I., Wu, T.Y., Hsu, W.L., Cheng, B.S. (2005) *Leadership of the Guest Conductor in the Symphony Orchestra*. Paper presented at the 2005 Annual Convention of the Taiwanese Psychological Association. Chung Yuan University, Chung Li, Taiwan

Lu, C. I. (2004). *Leadership of the Guest Conductor in the Symphony Orchestra*. (Unpublished Master Thesis). National Taiwan University, Taipei, Taiwan.

Lu, C. I. (1997). *Research of Mendelssohn Symphony No.3- Scottish*. (Unpublished Master Thesis). National Taiwan Normal University, Taipei, Taiwan.

Invited Lectures/Presentations (selected)

Invited Seminars **Nov, 2021**

“AI and Music: Math, Physics and Python”, Lecture at Department of Music, National Taiwan Normal University, Taipei, Taiwan

Invited Seminars **Jan, 2021**

“How to teach Multimedia Music and New Media Art in Senior High school level?”, Lecture at Department of Music, National Taiwan Normal University, Taipei, Taiwan

Invited Seminars **Oct, 2020**

“AI and Music Teaching”, Lecture at Taipei High School Teachers’ Association, Taipei, Taiwan

Invited Seminars **Nov, 2019**

“AI and Music Teaching”, Lecture at Department of Music, National Taiwan Normal University, Taipei, Taiwan

Invited Seminars **Oct, 2019**

“All about Music: Physiology, Psychology, and Therapy”, Lecture at Department of Computer Science, National Tsing Hua University, Hsinchu, Taiwan

Invited Seminars **Sep, 2019**

“Brain Organization for Music Processing”, Lecture at Music Therapy Association of Taiwan,
Taichung Branch, Taichung, Taiwan
Invited Seminars **Aug, 2019**

“Neuroplasticity: Cases Reports using Music Therapy”, Lecture at Kaohsiung Chang Gung
Memorial Hospital, Kaohsiung, Taiwan
Invited Seminars **Jan, 2019**

“Music and Brain”, Lecture at Music Therapy Association of Taiwan, Taipei, Taiwan
Invited Seminars **May, 2018**

“How to compose a song using GarageBand in Senior High School Classes?” Lecture at Taipei
Municipal Dazhi High School, Taipei, Taiwan
Invited Seminars **May, 2018**

“How to prepare for Interdisciplinary Teaching Materials as a Senior High School Music
Teacher? Individual vs Group Level.”, Lecture at Teacher Education of Students Association,
National Taiwan Normal University, Taipei, Taiwan
Invited Seminars **Feb, 2018**

“How to compose a song using GarageBand? ”Lecture at Department of Music, Taipei National
University of the Arts, Taipei, Taiwan
Invited Seminars **Dec, 2017**

“Musical Therapy, Psychotherapist, or Speech Therapy in Stuttering? An example from the film-
The King’s Speech”, Lecture at Taipei High School Teachers’ Association Taipei, Taiwan
Invited Seminars **Dec, 2017**

“Assessment, Treatment, or Entertainment? Dialogues in music therapy and music neuroscience”,
Lecture at Department of Music, National Taiwan Normal University, Taipei, Taiwan
Invited Seminars **Nov, 2017**

“Multimedia and New Media in Pedagogy of Music”, Lecture at Department of Music, National
Taiwan Normal University, Taipei, Taiwan
Invited Seminars **Oct, 2017**

“Assessment, Treatment, or Entertainment? Dialogues in music therapy, music neuroscience, and
Artificial Intelligence (AI)”, Lecture at Department of Computer Science, National Tsing Hua
University, Hsinchu, Taiwan
Invited Seminars **Sep, 2017**

“How to produce a musical? An example of Broadway: Wicked”, Lecture at Taipei Teachers’
Association Taipei, Taiwan
Invited Seminars **Sep, 2017**

“Teaching Practicum of Music”, Lecture at Center for Teacher Education, Taipei National
University of the Arts, Taipei, Taiwan

Invited Seminars**May, 2016**

“Reading and working memory in adults with or without formal musical training: Musical and lexical tone”, Lecture at Department of Speech Language Pathology and Audiology, Chung Shan Medical University, Taichung, Taiwan