

## Ming-Che Hsieh

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### Research Interests

Bilingual language control and learning, Neurolinguistics, Psycholinguistics, Text Mining

### Education

- 2018-2021    PhD., Tohoku University, Japan  
*International Graduate Program of Language Sciences*
- 2012-2016    Master, National Chengchi University, Taiwan  
*Graduate Institute of Linguistics*
- 2014-2015    Special research student, Tohoku University, Japan  
*Department of Medicine*
- 2008-2012    Bachelor, National Chengchi University, Taiwan  
*English Department*

### Working Experience and Civil Service

- 2021-        MOST Project-based Postdoctoral Researcher  
**Project:** Overcoming Challenges of Teaching Climate Change: Exploring Effects of Multiple Scaffolds on Web-Based Learning about Climate Change  
**Principal Investigator:** Dr. Chia-Yu Wang  
Graduate Institute of Digital Learning and Education  
National Taiwan University of Science and Technology
- 2019-2021    Joint Researcher  
Institute of Development, Aging, and Cancer, Tohoku University  
**Project:** Neural Mechanisms of Language Control: Evidence from Language Switching
- 2017-2018    MOST Project-based Research Assistant  
**Project:** Working Memory Processing among Taiwan Sign Language Interpreters and Bilingual Individuals  
**Principal Investigator:** Dr. Yi-Shiuan Chiu  
Department of Psychology  
Fu Jen Catholic University
- 2016-2017    Civil Service, Ministry of Education, Taiwan  
Department of Higher Education

## Publication

### A. Journal Article

1. **Hsieh, M.**, Jeong, H., Nakayama, M., & Sugiura, M. (2021). Domain-general executive functions in switching costs during language comprehension: Switching directions determine the engagement. *Studies in Language Sciences*, 19(2), 27-35. **(JSTAGE)**
2. **Hsieh, M.**, Jeong, H., Sugiura, M., & Kawashima, R. (2021). Neural evidence of language membership control in bilingual word recognition: An fMRI study of cognate processing by Chinese-Japanese bilinguals. *Frontiers in Psychology*, 12, 2079. <https://doi.org/10.3389/fpsyg.2021.643211>. **(SSCI, Impact factor = 2.990 in 2021, Rank: 42/140 in Psychology, Multidisciplinary)**
3. **Hsieh, M.**, Jeong, H., Sasaki, Y., Lee, H., Kawata, H., Yokoyama, S., Sugiura, M., and Kawashima, R. (2017). Neural correlates of bilingual language control during interlingual homographs in a logogram writing system. *Brain and Language*, 174, 72-85. **(SSCI, Impact factor = 2.381 in 2021, Rank: 32/193 in Linguistics, Cited: 14)**

### B. Conference Proceeding

#### o Psycholinguistics and Neurolinguistics

1. **Hsieh, M.**, Jeong, H., Sugiura, M., and Kawashima, R. (2018). Bilinguals' lexical access of cognates in the brain: Effects of language memberships. In K. Sawasaki (ed), *Proceeding of the 20<sup>th</sup> Annual Conference of the Japanese Society of Language Sciences* (pp. 34-37). Saitama, Japan: JSLS Main Office.

#### o Text Mining

1. **Hsieh, M.** (2021). Latent features in bestselling comics: A text mining approach. In S. Liang (ed), *Proceeding of the 10<sup>th</sup> International Conference of ACG Studies* (pp. 3-3). Taoyuan, Taiwan: U-ACG.
2. **Hsieh, M.** (2019). Newspapers speak “two” languages: Evidence from the use of *fānzhuǎn* “flip” in Taiwan. *IEICE Technical Report*, 119(151), 55-59.
3. **Hsieh, M.** (2019). Intertwining complexities between social and dynamic changes of language use: An example of *fānzhuǎn* “flip” in Chinese. In K. Yoshimoto, H. Jeong, & W. Suzuki (eds), *Proceeding of the 21<sup>th</sup> Annual Conference of the Japanese Society of Language Sciences* (pp. 95-98). Sendai, Japan: JSLS Main Office.

## Conference Presentation

#### o Psycholinguistics and Neurolinguistics

1. Chiu, Y., Lin, Y., **Hsieh, M.**, Tsai, H., & Kuo, W. (2020). An fMRI study of late bimodal bilinguals during story comprehension. *Poster presentation for the 2020 Annual Meeting of the Organization for Human Brain Mapping*, June, 26 - 30, Montreal, Canada (Accepted but not attended due to the COVID-19 outbreak).

2. **Hsieh, M.**, Jeong, H., Sugiura, M., and Kawashima, R. (2015). Effects of interlingual homographs during lexical access in Chinese-Japanese bilinguals. *Oral presentation for the 13<sup>th</sup> International Cognitive Linguistic Conference (ICLC-13)*, July, 20 - 25, Newcastle, United Kingdom.
3. **Hsieh, M.**, Jeong, H., Sugiura, M., Sasaki, Y., Lee, H., Santos Kawata, K., Yokoyama, S., and Kawashima, R. (2015). Neural correlates of language control in interlingual homographs during bilingual semantic access. *Poster presentation for the 2015 Annual Meeting of the Organization for Human Brain Mapping*, June, 14 - 18, Honolulu, United States of America.

### o Text Mining and Corpus Linguistics

1. 大方翔貴, 田辺亜澄, 謝明哲, 杉浦元亮 (2021)。テキストマイニングによる複数カテゴリーからの商品分類の試み。日本マーケティング学会, ポスター, October, 17, オンライン開催。
2. **Hsieh, M.** (2021). Why did Demon Slayer (鬼滅の刃) become so popular? A text mining approach. *Poster presentation for the 22<sup>nd</sup> Annual Conference for the Japanese Society of Language Sciences* (Virtual meeting due to the COVID-19 outbreak).
3. **Hsieh, M.** (2013). Synonyms are not the same: evidence from Mandarin prepositions. *Poster presentation for the 12<sup>th</sup> International Cognitive Linguistics Conference (ICLC-12)*, June, 23 - 28, Edmonton, Canada.
4. Chung, S., Lee, M., Lin, Y., and **Hsieh M.** (2012). Cross-linguistics and metaphorical comparison of IN (SIDE): a perspective from Mandarin, Malay, and English. *Oral presentation for The Meaning of P*, November, 23 - 25, Bochum, Germany.

### Invited Talk and Symposium

1. **Hsieh, M.** (2019). Brain mechanisms of language control in bilinguals' L1 and L2. *International Symposium on Diverse Approaches to Second Language Acquisition: Corpus, Brain Science, and Technology*, June, 1 - 2, Tokyo, Japan.

### Scholarship and Honor

#### A. Scholarship

2019/04	日本台湾交流協会奨学金(日本採用、同文部省奨学金) 公益財団法人日本台湾交流協会(JPY¥ 148,000/month)
2019/04	President Fellowship Tohoku University (JPY¥ 535,800/year)
2018/10 - 2019/3	Monbukagakusho Honors Scholarship Japan Student Services Organization (JASSO, JPY¥ 48,000/month)
2014/4 - 2015/3	Scholarship for Short-Term Study in Japan Japan Student Services Organization (JASSO, JPY¥ 80,000/month)

#### B. Academic Honor

2015/10	國立政治大學語言學研究所獎學金(第二類：學術論文發表)
2015/08	國立政治大學傑出交換生
2013/10	國立政治大學語言學研究所獎學金(第一類：學期成績最優秀者)

2013/10

國立政治大學外語學院國際化獎學金

## Research Grants and External Funding

- 2019/04 - 2021/03     Joint Research Program of Joint Usage / Research Center  
Institute of Development, Aging, and Cancer, Tohoku University  
Research project: *Neural Mechanisms of Language Control ---  
Evidence from Language Switching* (JPY¥ 300,000)
- 2015/06                Travel grant for attending the 13<sup>th</sup> International Cognitive  
Linguistics Conference, Ministry of Science and Technology,  
Taiwan. Project No. MOST-104-2922-I-004-046 (NTD\$ 55,000)
- 2011/12                Travel grant for attending the Meaning of P, National Chengchi  
University (NTD\$ 22,000)

## Teaching Experience

### A. National Taiwan University of Science and Technology (G = Graduate)

- 2022/07                Statistics Analysis with R (G)  
Course lecturer (Microcredit: one credit)  
(designed and led tutorials, trained students in data analysis with R)

### B. Tohoku University (G = Graduate, U = Undergraduate)

- 2020/10 – 2021/02     Psycholinguistics II (G)  
Teaching assistant (Course lecturer: Dr. Mariko Nakayama)  
(prepared for materials and answered students' questions)
- 2020/09 – 2020/10     Summer workshop: Statistical Analysis with R (G)  
Lecturer  
(designed and led tutorials, trained students in data analysis with R)
- 2020/04 – 2020/08     Neurolinguistics I (G)  
Teaching assistant (Course lecturer: Dr. Hyeonjeong Jeong)  
(prepared for materials and answered students' questions)
- 2018/10 – 2019/08     English (U)  
Teaching assistant (Course lecturer: Dr. Hyeonjeong Jeong)  
(led discussions, corrected students' homework)

### C. National Chengchi University (G = Graduate, U = Undergraduate)

- 2016/02 – 2016/06     Semantics (G)  
Teaching assistant (Course lecturer: Dr. Rik De Busser)  
(prepared for materials)
- 2012/09 – 2014/02     Language and World Civilization (U)  
Teaching assistant (Course lecturer: Dr. Rik De Busser)  
(prepared for materials, led discussions, corrected students' homework,  
and provided tutorials in linguistic analyses)

2011/09 – 2012/02 Introduction to Semantics (U)  
Teaching assistant (Course lecturer: Dr. Siaw-Fong Chung)  
(prepared for materials)

## Service

### A. Reviewer for Conference Submissions

2020 The 21st Annual Conference of the Japanese Society of Language Sciences (Cancelled due to the COVID-19 outbreak)

### B. Tohoku University

2019/06 – 12 English instructor for Sendai Third High School Project  
(reviewed high school students' projects and provided tips for the English presentation)

2019/01 – 12 Academic volunteer for Exploring-Germination-and-Growth Program for Young Scientists, Tohoku University (<http://www.ige.tohoku.ac.jp/mirai/>)  
(shared research experience with high school students)

2014/09 – 12 Academic volunteer for Exploring-Germination-and-Growth Program for Young Scientists, Tohoku University (<http://www.ige.tohoku.ac.jp/mirai/>)  
(shared research experience with high school students)

## Research Experience

- All principal investigators are faculty members in National Chengchi University

2013/02 – 06 Research assistant with funding from Ministry of Education (Taiwan)  
**Project:** Foreign Language Learner Corpora Project  
**Principal Investigator:** Dr. Ka-Wai Chui

2012/09 – 2013/06 Research assistant with funding from National Science Council (Taiwan)  
**Project:** Taiwan Mandarin Consonant Acquisition  
**Principal Investigator:** Dr. I-Pin Wan

2011/07 – 2011/08 Intern funded by Linguistic Society of Taiwan (LST)  
**Laboratory:** NCCU Eye Movement and Reading Laboratory  
**Principal Investigator:** Dr. Jie-Li Tsai

2009/07 – 2011/07 Research assistant with funding from Ministry of Education (Taiwan)  
**Project:** Foreign Language Learner Corpora Project  
**Principal Investigator:** Dr. Siaw-Fong Chung