

# YI-CHIEN LIN

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## Education

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- **National Tsing Hua University (NTHU), Hsinchu, Taiwan** Sep. 2015 – June 2020
- Degree: B.A. in Foreign Languages and Literature (FLL)
- Overall GPA: 3.77/4.30; Last 60 GPA: 4.11/4.30
- Relevant Coursework:  
Introduction to Linguistics, Introduction to Applied Linguistics, Linguistic Analysis, Syntax, Language and the Brain, Phonology, Natural Language Processing, Basic Linguistic Web Application Development, Sentence Processing Experiments, Introduction to Psycholinguistics, Programming in Linguistics, Programming Design, Calculus I, Sentence Comprehension, Data Structures, Statistics (I), Calculus II, Statistics (II), Language, Meaning and Logic

## Work Experiences

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### National Tsing Hua University Natural Language Processing Laboratory (Hsinchu, Taiwan)

Position: Research Assistant

July 2020 – Present

- Embedded dictionary definitions. Constructed a vector space model with WordNet for definition vectorization.
- Developed the algorithm for the detection of argument-hood.
- Mentor: Prof. Jason S. Chang, Ph.D.

### National Tsing Hua University Natural Language Processing Laboratory (Hsinchu, Taiwan)

Position: Linguistic Intern

July 2019 – June 2020

- Generated guidelines for synchronous grammar pattern annotation across Chinese and English. Analyzed the syntactic structures of Chinese and English.
- Analyzed the relation between WordNet senses and Wikipedia pages. Assisted in developing the algorithm for aligning WordNet senses to their corresponding Wikipedia pages.
- Devised testing data guidelines for the Wikipedia-WordNet alignment task.
- Mentor: Prof. Jason S. Chang, Ph.D.

### Glossika (Taipei, Taiwan)

Position: Linguistic Intern

Jan. 2019 – June 2019

- Refined the Role and Reference Grammar database. Analyzed and annotated possible thematic roles of English verbs for improvement of Glossika learning system.
- Amplified the lexicon databases of German, Dutch, and Swedish. Implemented their morphological structures with regular expression.
- Mentor: Michael Campbell

## Professional Presentations

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- Tuan, K. W., **Lin, Y. C.**, Chen, L. K., Chang, J. S. & Lee, K. L. (2020, December). *ConSenses: Disambiguating content word groups based on knowledge base and definition embedding*. Poster presented at the 25th International Conference on Technologies and Applications of Artificial Intelligence (TAAI 2020), Taipei City, Taiwan.
- Yang, C. Y., Chen, Y. Z., **Lin, Y. C.**, Tsai, W. T. & Chang, J. S. (2019, October). *Annotating Synchronous Grammar Patterns across English and Chinese*. Poster presented at the 31<sup>st</sup> Conference on Computational Linguistics and Speech Processing (ROCLING 2019), New Taipei City, Taiwan.
- Hsu, C. C., Chang, F. Y., Chen, C. Y., Chen, P. Y., **Lin, Y. C.** & Liu, Y. T. (2019, March). *The asymmetry between ziji and ta-ziji in Mandarin: An empirical investigation*. Poster presented at the 2<sup>nd</sup> International Conference on Theoretical East Asian Psycholinguistics, Beijing, China.

## Projects

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### **A Study of L2 Acquisition of Backward Anaphora Resolution**

*Sentence Comprehension course (LING 579500), NTHU*

- Designed and refined experimental materials.
- Conducted the pilot experiment. Analyzed the experimental results.
- Advisor: Prof. Yi-Ching Josephine Su, Ph.D.

\*\* This is an ongoing project (Sep. 2019 - Present) and is a collaborative work with Prof. Yi-Ching Josephine Su and Hsiang-Ching Chiu.

### **Extracting Features for Word-Sense Disambiguation of Prepositions: A Case Study of on**

*Self-conducted research*

- Developed and implemented research methods and algorithms for the feature extraction of the meanings of preposition *on*.
- Evaluated and analyzed the results of the study. Proposed possible solutions and ways of improvements for future works.
- Link to the writing sample of this study: Please click [here](#)
- Link to the source code: <https://github.com/nicalin/Preposition-Sense-Disambiguation-A-study-of-On>

## Teaching Experience

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### **National Tsing Hua University, Dept. of Foreign Languages and Literature (Hsinchu, Taiwan)**

*Position: Teaching Assistant*

Jan. 2020 – June 2020

- FL422000 Sentence Processing Experiments (Instructor: Prof. Chun-Chieh Hsu, Ph.D.)

## Award

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- Academic Achievement Award, NTHU (2018): top 5% in class

## Computer Skills and Languages

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- *Computer Programming Languages*: Python, C, C++, JavaScript, R, HTML
- *Languages*: Mandarin (Native), English (Advanced; TOEFL: 104/120), German (Pre-intermediate), Japanese (Beginner)

## Selected Extracurricular Activities

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- *Leader of Design and Promotion Section*, Senior Play of FLL, NTHU May 2018 – Dec. 2018
- *Chief Director of Planning*, Science Service Club, NTHU 2016 – 2017