Yu-Yun Chang

Curriculum Vitae

Education

2012–2019 **Doctor**, *Graduate Institute of Linguistics, National Taiwan University*, Taipei, Taiwan.

2018–2019 **Visiting Scholar**, *Department of Linguistics, The Ohio State University*, Ohio, US.
Granted by Ministry of Science and Technology

2009–2010 **Master**, *Program of Speech and Language Processing, University of Edinburgh*, Edinburgh, UK.
Awarded the UKEAS Tainan Special Scholarship.

2005–2009 **Bachelor**, *Department of Foreign Languages and Literature, National Cheng Kung University*, Tainan, Taiwan.

Awards / Certificates

2017 **HackNTU**, *award*, Hackathon for Data Analytics in Financial Service, The Enterprise Award of CTBC Bank.
The 3rd prize

2017 **Financial Aid Program**, *award*, PyCon 2017.

2012–2017 **Teaching Assistant**, *certificate*, National Taiwan University.

2016 **HackNTU**, *certificate*, National Taiwan University.

2016 **Code for Gender**, *award*, Womany.
The 2nd prize

2014 **Workshop on Advanced Linguistics: Language Change**, *certificate*, Linguistic Society of Taiwan.

2014 **Lecturer**, *certificate*, Ministry of Education.

2012 **NTU International Study Group Project**, *award*, National Taiwan University, Study project: python nltk packages.
The best study group award

Talks

2019 **Speaker**, *Have fun doing sentiment analysis in R*, National Chengchi University, Course: Corpus Linguistics.
Host: Dr. Siaw-Fong Chung

2018 **Speaker**, *Sharing Workshop of Female Engineer*, Pyladies Meetup, Python X NLP.

2017 **Speaker**, *When NLP meets with Linguistics*, PyCon 2017 Lightning Talk.

2017 **Speaker**, *Gender, Data and Semantic Analysis*, Workshop Host: Womany.

Program Committee

2012-present **Program Committee**, *Conference on Computational Linguistics and Speech Processing (ROCLING)*.

2020 **Program Committee**, *The 28th International Conference on Computational Linguistics (COLING)*.

2020 **Program Committee**, *The 10th Conference on Language, Discourse, and Cognition (CLDC)*.

Oral Defense Committee

2020.7.14 **Oral defense**, *An Analysis of Multimodal Document Intent in Instagram Posts*, Student: Ying-Yu Chen 陳盈瑜, National Taiwan University.

2020.6.30 **Oral defense**, *When memes are mean: Predicting dark humor in internet memes*, Student: Yi-Ju Lin 林宜儒, National Taiwan University.

2020.6.15 **Proposal hearing**, *A Corpus-based Study of the Near-Synonyms ADMIT and CONFESS*, Student: 王慶華, National Chengchi University.

Work Experiences

2020 **Consultant**, *Infocast LLC*.
   ○ Providing linguistic knowledge to projects

2017-2018 **Data Scientist**, *Anno. ExpertSourcing Limited*, Startup.
   ○ Leading a research and development team
   ○ Developing products with machine learning approaches
   ○ Working on product design and structure
   ○ Exploring and anaylyzing data (with visualization)
   ○ Performing product testing and evaluation
   ○ Releasing products through APIs
   ○ Setting up websites

2012-2018 **Adjunct Lecturer**, Shih Hsin University.
   ○ English Grammar and Sentence Patterns
   ○ Presentation in English
   ○ Freshman English

2011-2018 **Research Assistant**, *Project Investigator: Dr. Shu-Kai Hsieh*, sponsored by Ministry of Science and Technology, Projects:.
   ○ Modeling the Lexical Stabilization
   ○ Unsupervised Emotion Chunk Detection and Analysis
   ○ Interfacing Lexical Semantics and Emotion: Theoretical Construction and Empirical Validation
   ○ Exploring the Basic Lexicon: a distributional semantic approach
   ○ Modularization and Re-Use Solutions for Chinese Corpus Linguistics: A Forward-Looking Perspective

2010–2018 **Teaching Assistant**, *Dr. Shu-Kai Hsieh*, National Taiwan University, Courses:.
  ○ Linguistic Analysis and Data Science
  ○ Lexicon and Ontology
  ○ Semantics
  ○ Corpus Processing Method (I)
  ○ Corpus Linguistics
  ○ Programming Fundamentals for Computational Linguistics
  ○ Comparative Lexicography : Sense and Translation Equivalents
  ○ Computational Linguistics

2017 **Assistant**, *Taiwan Olympiad in Linguistics*.

2016 **Lecturer**, *Taiwan Olympiad in Linguistics*, Topic: Writing systems.

2014-2015 **Teaching Assistant**, *Lily Chiao-Ling Chen*, National Taiwan University.
  ○ Teaching presentation skills in Academic Writing Education Center.

2005-2009 **Research Assistant**, *Ass. Prof. Li-Mei Chen*, National Cheng Kung University.
  ○ Recording and collecting the children's natural speaking data;
  ○ Coding and analyzing the data;
  ○ Training the new-coming members;
  ○ Co-authored papers.

Other Activities

2020 **Speaker**, *哪些「假新聞」容易讓人相信？ 計算語言學和聽得懂人話的電腦*, Host: Iju Hsu.
鏡好聽-語言好好玩

2020 **Commentator**, *Course: Introduction to Data Science with R*, Host: Dr. Shu-Kai Hsieh.
National Taiwan University

2019 **Session Chair**, *The 1st NTü Linguistic Workshop and The 2nd Innovation Forum on Linguistics and AI-NLP Technology*, Host: Dr. Shu-Kai Hsieh.
Graduate Institute of Linguistics, National Taiwan University

2017 **Commentator**, *Student Topic: A socio-syntactic analysis of US presidential inaugural speeches*.
Shih Hsin University

2016 **Participant**, *Hackathon: HackNTU*, host: National Taiwan University.
  ○ Hackathon project: an interpreter for girlfriends' implicit meanings

2016 **Participant**, *Hackathon: Code for Gender*, host: Womany.
  ○ Hackathon project: detection of potential sexual assaults on online dating websites

2016 **Co-organizer**, *The 8th Conference on Language, Discourse and Cognition*, host: National Taiwan University.

2014-2015 **Co-organizer**, *Project of technology transferring*, company: Chunghwa Telecom.
  ○ co-organizing on a technology transferring project with Chunghwa Telecom
  ○ working on emotion event identification

2014 **Participant**, *Shared Task on Micro-Blog Sentiment Detection*, host: The 2nd SocialNLP Workshop.
  ○ project: detection of micro-blog sentiment

2013-2014	**Study Group Co-Organizer**, National Taiwan University, sponsored by Center for Teaching and Learning Development.
	○ R study group: reading *Analyzing Linguistic Data (R. Harald Baayen, 2008)*
	○ Python study group: reading *Natural Language Processing with Python*
2011	**Co-organizer**, *The 12th Chinese Lexical Semantics Workshop*, host: National Taiwan University.

Computer Skills

Programming language	Python, R

Publications

Journals

[1] **Yu-Yun Chang** and Shu-Kai Hsieh. Filtered collocations as features in verbal polysemy disambiguation: A case study of the Chinese verb kao 'bake'. *Language and Linguistics*, 19(1):61–79, 2018. John Benjamins Publishing Company. [AHCI, SSCI].

[2] Pierre Magistry, Shu-Kai Hsieh, and **Yu-Yun Chang**. Sentiment detection in micro-blogs using unsupervised chunk extraction. *Lingua Sinica*, 2(1):1–10, 2016. Springer [Corresponding author].

[3] **Yu-Yun Chang**. Evaluation of TTS systems in intelligibility and comprehension tasks: a case study of HTS-2008 and Multisyn synthesizers. *International Journal of Computational Linguistics and Chinese Language Processing*, 17(3):109–128, 2012. [THCI].

[4] Sheng-Fu Wang, Jing-Chen Yang, **Yu-Yun Chang**, Yu-Wen Liu, and Shu-Kai Hsieh. Frequency, collocation, and statistical modeling of lexical items: A Case Study of Temporal Expressions in Two Conversational Corpora. *International Journal of Computational Linguistics and Chinese Language Processing*, 17(2):37–54, 2012. [THCI].

Conference Papers

[5] **Yu-Yun Chang** and Shu-Kai Hsieh. Do you believe it happened? Assessing Chinese readers' veridicality judgments. In *Proceedings of the 12th International Conference on Language Resources and Evaluation (LREC 2020)*, pages 259–267, 2020. [Indexed by CPCI (Thomson Reuters Conference Proceedings Citation Index) and SCOPUS].

[6] Shu-Kai Hsieh and **Yu-Yun Chang**. Leveraging morpho-semantics for the discovery of relations in chinese wordnet. In *Proceedings of the 7th International Global WordNet Conference*, 2014.

[7] Chih-Yao Lee, **Yu-Yun Chang**, Shu-Kai Hsieh, Jia-Fei Hong, and Chu-Ren

Huang. Cwikin: A Wiki that Helps Quicken the Development of Chinese Wordnet. In *ASIALEX 8th International Conference*, 2013.

[8] Pei-Yu Lu, **Yu-Yun Chang**, and Shu-Kai Hsieh. Causing emotion in collocation: An Exploratory Data Analysis. In *Proceedings of the 25th on Computational Linguistics and Speech Processing*, 2013.

[9] **Yu-Yun Chang** and Shu-Kai Hsieh. Features of verb complements in co-composition: A Case Study of Chinese Verb 'bake' using Weibo Corpus. In *The 6th International Conference on Generative Approaches to the Lexicon*, 2013.

[10] Shu-Kai Hsieh, **Yu-Yun Chang**, and Meng-Xian Shih. Chinese sentiments on the clouds: A Preliminary Experiment on Corpus Processing and Exploration on Cloud Service. In *The 26th Pacific Asia Conference on Language Information and Computing (PACLIC 26)*, 2012.

[11] **Yu-Yun Chang**. Evaluation of TTS systems in intelligibility and comprehension tasks. In *The 23rd Conference on Computational Linguistics and Speech Processing(Rocling2011)*, 2011.

[12] **Yu-Yun Chang**, Y.-W. Chen, and Lee-May Chen. Acoustical analysis of vowels in a child with cochlear implants: A longitudinal study. In *Proceedings of the 9th Annual Hawaii International Conference on Arts and Humanities*, page 1225, 2011.

[13] Sheng-Fu Wang, Jing-Chen Yang, **Yu-Yun Chang**, Yu-Wen Liu, and Shu-Kai Hsieh. Frequency, collocation, and statistical modeling of lexical items: a case study of temporal expressions in an elderly speaker corpus. In *The 23rd Conference on Computational Linguistics and Speech Processing(Rocling2011)*, 2011.

[14] Lee-May Chen and **Yu-Yun Chang**. Developmental changes of acoustic vowel spaces in children with cochlear implants. In *NCYU Inquiry of Applied Linguistics: The 2008 Issue*, pages 123–135, 2009.

[15] Lee-May Chen, Yu-Jie Wu, and **Yu-Yun Chang**. Tone and consonant development: Data from a child with cochlear implant. In *The 8th National Congress of Early Intervention Program for Children with Developmental Delays*, pages 165–169, 2006.

Book Chapters

[16] **張瑜芸**和謝舒凱。*生成詞庫理論與漢語研究*，章節協同組合機制下的動詞賓語特性。商務印書館，2018。