

# Chia-Hsuan Chang

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## ACADEMIC BACKGROUND

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<b>National Sun Yat-Sen University</b> Ph.D. in Information Systems Dissertation: A Study on Text Analysis Across Languages Advisor: Dr. San-Yih Hwang	Kaohsiung, Taiwan Sept. 2016 – July 2021
<b>Drexel University, College of Computing and Informatics</b> Visiting Ph.D. Student	Philadelphia, USA Feb. 2020 – Feb. 2021
<b>National Sun Yat-Sen University</b> M.B.A. in Information Systems	Kaohsiung, Taiwan Sept. 2015 – June 2016
<b>National Sun Yat-Sen University</b> B.B.A. in Information Systems	Kaohsiung, Taiwan Sept. 2011 – June 2014

## PROFESSIONAL EXPERIENCE

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<b>Drexel University, College of Computing and Informatics</b> Postdoctoral Researcher	Philadelphia, USA Feb. 2023 – Present
<b>National Sun Yat-Sen University, Department of Information Management</b> Postdoctoral Researcher	Kaohsiung, Taiwan Oct. 2022 – Jan. 2023
<b>iGroup Asia Pacific Ltd.</b> Machine Learning Engineer	Kaohsiung, Taiwan Oct. 2018 – Feb. 2019
<b>Advanced Semiconductor Engineering, Inc.</b> Graduate Researcher	Kaohsiung, Taiwan Feb. 2015 – Aug. 2017

## PUBLICATIONS

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### Journal Articles

1. **Chang, C. H., & Yang, C. C.** (2023). On bridging consumer health search across languages using cross-lingual word space. *Electronic Commerce Research and Applications*, 59, 101254.
2. Monselise, M., **Chang, C. H.**, Ferreira, G., Yang, R., & Yang, C. C. (2021). Topics and Sentiments of Public Concerns Regarding COVID-19 Vaccines: Social Media Trend Analysis. *Journal of Medical Internet Research*, 23(10), e30765.
3. **Chang, C. H.**, & Hwang, S. Y. (2021). A word embedding-based approach to cross-lingual topic modeling. *Knowledge and Information Systems*, 63(6), 1529-1555.
4. **Chang, C. H.**, Hwang, S. Y., & Wu, M. L. (2021). Learning bilingual sentiment lexicon for online reviews. *Electronic Commerce Research and Applications*, 47, 101037.
5. **Chang, C. H.**, Monselise, M., & Yang, C. C. (2021). What Are People Concerned About During the Pandemic? Detecting Evolving Topics about COVID-19 from Twitter. *Journal of Healthcare Informatics Research*, 5(1), 70-97.

### Conferences/Oral Presentations

1. **Chang, C. H.**, Chang, F. Y., & Hwang, S. Y. (2023). Prompting for Few-shot Adverse Drug Reaction Recognition from Online Review. In *2023 IEEE International Conference on Healthcare Informatics (ICHI)* (pp. tentative). IEEE.
2. **Chang, C. H.**, Wang, L., & Yang, C. C. (2022). Constructing Cross-lingual Consumer Health Vocabulary with Word-Embedding from Comparable User Generated Content. *arXiv preprint arXiv:2206.11612*.
3. Chang, C. M., **Chang, C. H.**, & Hwang, S. Y. (2020). Employing word mover's distance for cross-lingual plagiarized text detection. *Proceedings of the Association for Information Science and Technology*, 57(1), e229.
4. **Chang, C. H.**, Wu, M. L., & Hwang, S. Y. (2019, July). An approach to cross-lingual sentiment lexicon construction. In *2019 IEEE International Congress on Big Data (BigDataCongress)* (pp. 129-131). IEEE.
5. **Chang, C. H.**, Hwang, S. Y., & Xui, T. H. (2018, July). Incorporating word embedding into cross-lingual topic modeling. In *2018 IEEE International Congress on Big Data (BigData Congress)* (pp. 17-24). IEEE.

## **AWARD AND HONOR**

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- 2021    **Exceptional Doctoral Dissertation**, National Sun Yat-Sen University
- 2021    **Honorary Member**, The Phi Tau Phi Scholastic Honor Society of the Republic of China
- 2020    **Fellowship**, NT 900,000 from Graduate Students Study Abroad Program, Ministry of Science and Technology, Taiwan

## **SKILLS**

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### **Technical Skills:**

Programming Languages: Python, R, Java, Bash, SQL, HTML/CSS/JS, LaTeX

- Tools: PyTorch, Keras, Tensorflow, MySQL, MongoDB, Linux, Docker, Git

**Language Skills:** Mandarin (Native), English (Excellent)