

YI-HUI (LILY) LEE

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SUMMARY

Fourth year Ph.D. Candidate in Computer Science passionate in Artificial Intelligence looking for a position as Research Intern. Prefer but not limit to working on Machine Learning and Artificial Intelligence.

EDUCATION

The University of Texas at Dallas <i>Doctor of Philosophy in Computer Science</i>	Richardson, TX Aug. 2018 to May. 2023(expected)
National Taiwan Normal University <i>Master of Science and Bachelor of Science in Computer Science and Information Engineering</i>	Taipei, Taiwan Sep. 2011 to Aug. 2017

EXPERIENCE

The University of Texas at Dallas (PyTorch, AWS-Mturk, spaCy, AllenNLP, Gensim) <i>Research Assistant, Advisor: Prof. Shuang Hao</i>	Richardson, TX Aug. 2018 to Present
<ul style="list-style-type: none">Research on fake news, fake images and fake videos.Design deep learning-based method to detect fake information in social media.Build token embedding by Gensim and group with Hierarchical/ K-means clustering. Define IoT device domain-name patterns.	

Institute of Information Science, Academia Sinica <i>Research Assistant, Advisor: Prof. Wei-Yun Ma</i>	Taipei, Taiwan Jul. 2016 to Jun. 2018
<ul style="list-style-type: none">Researched on natural language processing and deep learning related topics.Designed a product embedding model to assign an unique product to entities mentioned in the blog. (Published in LREC 2020[1].)Proposed bootstrapping method to extract instances from unstructured movie articles. (Published in WWW Demo 2017[4].)	

IBM <i>Software Engineering Intern</i>	Taipei, Taiwan Jul. 2015 to Dec. 2015
<ul style="list-style-type: none">Worked on troubleshooting solutions for auto insurance batch system such as insurance renewal and reimbursement accounting.Debugged and detected in user acceptance testing stage, increased acceptance rate to 95%.Led internship group of 12 people on planning panel talks and designing a business proposal for emotional cloud service.	

National Taiwan Normal University <i>Research Assistant, Advisor: Prof. Jia-Ling Koh</i>	Taipei, Taiwan Sep. 2015 to Aug. 2017
<ul style="list-style-type: none">Research on knowledge discovery and data/ text miningDesigned a web search-based approach to extract conditional relation tuple for diseases and symptoms.Published in IEEE/WIC/ACM International Conference on Web Intelligence (WI 2018), Santiago[3].	

SELECTED PROJECT

Computer Vision with Convolutional Neural Networks	Aug. 2020 to May. 2021
<ul style="list-style-type: none">Combine deep learning (MTCNN, cascade) and rule-based algorithm to detect eye-blinking leading 81.36% accuracy. (TensorFlow)Design Attention-Based Bilingual Image2caption Emoji Model (ABBIE) for image captioning. (PyTorch, Python, cv2, Hugging Face)ABBIE used three subsystem components; Transformer, bilingual language model and image caption model.	

PUBLICATIONS

- [1] Mu Yang, Chi-Yen Chen, **Yi-Hui Lee**, Qian-Hui Zeng, Wei-Yun Ma, Chen-Yang Shih, Wei-Jhih Chen, "Headword-Oriented Entity Linking: A New Entity Linking Task with Dataset and Baseline," *Proc. LREC*, May 2020.
- [2] Kung-Hsiang Huang, Yi-Fu Fu, Yi-Ting Lee, Tzong-Hann Lee, Yao-Chun Chan, **Yi-Hui Lee**, Shou-De Lin, "A-HA: A Hybrid Approach for Hotel Recommendation," *Proc. the 13th ACM Recommender Systems Challenge Workshop, RecSys Challenge*, September 2019.
- [3] **Yi-Hui Lee**, Jia-Ling Koh, "Conditional Relationship Extraction for Diseases and Symptoms by a Web Search-Based Approach," *Proc. IEEE/WIC/ACM International Conference on Web Intelligence*, December 2018.
- [4] Peng-Yu Chen, **Yi-Hui Lee**, Yueh-Han Wu, Wei-Yun Ma, "IExM: Information Extraction System for Movies," *Proc. ACM WWW Demo Track*, April 2017. (**Best Demo - Special Mention Award**)

AWARDS

- 4th Place (4/1564)**, ACM RecSys X Trivago Challenge 2019 (**Published in RecSys 2019** [2].)
- Travel Grant**, Google Grace Hopper Celebration, 2018
- Women Techmakers Scholarship**, Google (Asia Pacific Area), 2017
- 1st Place**, PIXNET (Taiwan) CHATBOT HACKATHON, 2017
- Top 25**, ATCC X IBM (Taiwan) 11th National College Business Case Competition, 2013

SKILLS

- Programming Language:** Python, PyTorch, Tensorflow, C/C++, Java, Matlab, PHP, HTML, MySQL, JavaScript, CSS
- Platform:** Keras, AWS EC2, GCP, Linux, Twitter API, Spark, Hadoop, OpenCL, OpenMP, ~~ETX~~, Scrapy