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EDUCATION

Ph.D., Information Management, *National Taiwan University,* 2008 – 2015
Advisor: Yeali S. Sun and Meng Chang Chen
Thesis title: Personalized computer-aided question generation for English language learning

M.S., Network Learning Technology, *National Central University,* 2006 – 2008
Advisor: Jie-Chi Yang
Thesis title: The Study of Developing English Dialogue Companion System on English Learning for Elementary School Students

B.A., Information Management, Tamkang University, 2002 – 2006.

RESEARCH EXPERIENCE

Institute of Information Science, Academia Sinica, Taipei, Taiwan. 04/2018 – present
Postdoctoral Fellow, Advisor: Meng Chang Chen
Developing a neural question generation which generates a question conditioning on a given answer.

Department of Teaching, Learning, and Culture, Texas A&M University, College Station, TX.
Postdoctoral Fellow, Advisor: Noboru Matsuda   05/2017 – 03/2018
Designed a neural question generation by seq2seq model.

Research Center for Testing and Assessment, National Academy for Educational Research,
Assistant Research Fellow   New Taipei City, Taiwan. 09/2017 05/2017
Duties include project leader for national level assessments (Chinese).

Institute of Information Science, Academia Sinica, Taipei, Taiwan. 08/2015 – 09/2016
Postdoctoral Fellow, Advisor: Meng Chang Chen
Worked on an online multimedia learning system, TEDQuiz, for English language learners to practice their listening skills.

Carnegie Mellon University, Pittsburgh, PA. 04/2014 – 03/2015
Visiting Scholar, *Host*: Jack Mostow
Worked on the DQGen (Diagnostic Question Generator). My task involves generating multiple-choice cloze questions for diagnostic assessment of a child's comprehension while reading.

RESEARCH INTERESTS

Natural Language Processing, Data Science, Machine Learning, Personalization, Artificial Intelligence in Education

TEACHING INTERESTS

New Proposed Courses

Deep Learning for Natural Language Processing and its Applications, Machine Learning for Data Science

Standard Courses (taught in English)

Computer Basics, Statistics, Programming, Data Structure, Database, Operating System, Algorithm

AWARDS & HONORS

2016 Academia Sinica Regular Postdoctoral Fellows Scholarship

2015 Scholarship from Professor Ram Kumar Memorial Foundation

2014 Scholarship from Graduate Students Study Abroad Program by National Science Council

2012 Asia-Pacific Society for Computers in Education (APSCE) Merit Scholarship

2012 Nominated as Best Student Paper Award Nominee in International Conference on Computers in Education (ICCE)

2012 Nominated as Best Technical Design Paper Award in International Conference on Computers in Education (ICCE)

ACADEMIC SERVICES

Reviewer for Peer-reviewed Conferences

Annual Meeting of the Association for Computational Linguistics, Int. Conf. on Empirical Methods in Natural Language Processing, Int. Conf. on Computational Linguistics, Int. conf. on Artificial Intelligence in Education

Reviewer for International Journals

Interactive Learning Environments, Journal of Information Science and Engineering

REFERENCES

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Meng Chang Chen, Ph.D., Research Fellow,
Institute of Information Science,
Academia Sinica
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Jack Mostow, Ph.D., Emeritus Research Professor
Carnegie Mellon University
mostow@cs.cmu.edu
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JOURNAL

Mostow, J., Huang, Y. T., Jang, H., Weinstein, A., Valeri, J., & Gates, D. (2017). Developing, Evaluating and Refining an Automatic Generator of Diagnostic Multiple Choice Cloze Questions to Assess Comprehension while Reading. *Journal of Natural Language Engineering*, 23 (2), 245–294. [SCI]

Yang, J. C., Huang, Y. T., Tsai, C. C., Chung, C. I., & Wu, Y. C. (2009). An Automatic Multimedia Content Summarization System for Video Recommendation. *Journal of Educational Technology & Society*, 12(1), 49-61. [SSCI]

CONFERENCE

Huang, Y. T., Yang, T. C., Chen, M. C., Chen, C. M., & Sun, Y. L. (2016). Design of an Online Multimedia Learning System for Improving Students' Perceptions in English Language Learning. *In Proceedings of the 16th IEEE International Conference on Advanced Learning Technologies (ICALT 2016)*, 327-331. [EI]

Huang, Y. T., & Mostow, J. (2015). Evaluating Human and Automated Generation of Distractors for Diagnostic Multiple-Choice Cloze Questions to Assess Children's Reading Comprehension. *In Proceedings of the 17th International Conference on Artificial Intelligence in Education (AIED 2015),* 155-164.

Tseng, Y. M., Huang, Y. T., Chen, M. C., & Sun, Y. L. (2014). Generating Comprehension Questions using Paraphrase. *In Proceedings of the 19th Conference on Technologies and Applications of Artificial Intelligence (TAAI 2014)*, 310-321. [EI]

Huang, Y. T., Tseng, Y. M., Chen, M. C., & Sun, Y. L. (2014). TEDQuiz: Automatic Quiz Generation for TED Talks Video Clips to Assess Listening Comprehension, *In Proceedings of the 14th IEEE International Conference on Advanced Learning Technologies (ICALT 2014)*, 350-354. [EI]

Huang, Y. T., Chen, M. C., & Sun, Y. L. (2012). An Interpretable Statistical Ability Estimation in Web-based Learning Environment. *In Proceedings of the 20th International Conference on Computers in Education (ICCE 2012)*, 230-237. **[Best Student Paper Award Nominee]** [EI]

Huang, Y. T., Chen, M. C., & Sun, Y. L. (2012). Personalized Automatic Quiz Generation Based on Proficiency Level Estimation. *In Proceedings of the 20th International Conference on Computers in Education (ICCE 2012)*, 553-560. **[Best Technical Design Paper Award Nominee]** [EI]

Huang, Y. T., Chang, H. P., Sun, Y. L., & Chen, M. C. (2011). A Robust Estimation Scheme of Reading Difficulty for Second Language Learners. *In Proceedings of the 11th IEEE International Conference on Advanced Learning Technologies (ICALT 2011)*, 58-62. [EI]

Huang, Y. T., Lin, Y. L., Yang, J. C., & Wu, Y. C. (2008). An English Dialogue Companion System for Supporting Conversation Practice. *In Proceedings of the 16th International Conference on Computers in Education (ICCE 2008),* 43-48. [EI]

Huang, Y. T., Yang, J. C., & Wu, Y. C. (2008). The Development and Evaluation of English Dialogue Companion System. *In Proceedings of the 8th IEEE International Conference on Advanced Learning Technologies (ICALT 2008)*, 864 – 868. [EI]

Huang, Y. T., Chung, C. I., Tsai, C. C., Shen, C. H., Wu, Y. C., & Yang, J. C. (2007). A Mobile Video Question Answering System for E-learning. *In Proceedings of the 7th IEEE International Conference on Advanced Learning Technologies (ICALT 2007)*, 74-78. [EI]

Tsai, C. C., Chung, C. I., Huang, Y. T., Shen, C. H., Wu, Y. C., & Yang, J. C. (2007). VCSR: Video Content Summarization for Recommendation. *In Proceedings of the 7th IEEE International Conference on Advanced Learning Technologies (ICALT 2007),* 862-864. [EI]

Huang, Y. T., Tsai, C. C., Chung, C. I., Shen, C. H., Yang, J. C., & Wu, Y. C. (2007). Multimedia Content Summarization and Application to Video Recommendation. *In Proceedings of Technology Enhanced Learning Conference,* 23-30.