

KEXIN YANG

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EDUCATION

Carnegie Mellon University, School of Computer Science
Master of Educational Technology and Applied Learning Sciences

Pittsburgh, USA

Expected Aug. 2019

- *Advisor*: Dr. Carolyn Rose
- *Coursework*: Applied Machine Learning, Interactive Data Science, Personalized Online Learning, E-learning Design Principle, Educational Goals, Instruction and Assessment

Beijing Normal University
B.A. in English Language and Literature

Beijing, China

Sep. 2014 - Aug. 2018

- Overall GPA: 3.87/4.0, graduated with distinction
- *Coursework*: English Teaching Skills, Pedagogy, Educational Psychology, English Teaching Methodology, Multimedia and Webpage Design, Basic computer application, Mathematical Statistics, Discourse Analysis, British and American Literature

Christopher Newport University
Exchange student, funded by fellowship from BNU

Virginia, USA

Aug. 2015 - May. 2016

- GPA: 3.7/4.0, Dean's List

RESEARCH EXPERIENCES

Automatic Feedback in Writing (Funded by Schmidt Family Foundation) Jul. 2018 - Present
Advisor: Dr. Carolyn Rose *Carnegie Mellon University*

- In collaboration with Turnitin (a language technology company), analyzed students writing to extract relations
- Developed a procedural flowchart and a Guideline for RST annotation to help researchers annotate more efficiently
- Applying text mining and deep learning technologies to predict students' writing organization and give structural feedback

Intelligent Cognitive Tutor for Practical Rhetorical Structure Theory(Project) Oct. 2018 - Present
Advisor: Dr. Vincent Aleven *Carnegie Mellon University*

- Decomposed the inner loops and built KC model through theoretical and empirical Cognitive Task Analysis
- Building intelligent cognitive tutor with adaptive problem selection in the outerloop for personalized learning
- Ensuring students reach mastery through parameter tuning using Bayesian Knowledge Tracing in DataShop

Captioned Video for L2 Listening and Vocabulary Learning Sep. 2018 - Present
Advisor: Dr. Brian MacWhinney *Carnegie Mellon University*

- Managed and enriched research materials in CapVid and improved subtitle quality
- Improving on the accuracy of caption segmentation using the sonic CHAT in CLAN
- Building an intelligent tutor that increases learner's learning outcome using captioned video

Negative Transfer of Mandarin on English Phonetics (Bachelor's Thesis) Dec. 2017 - Jun. 2018
Advisor: Dr. Hui Yu *Beijing Normal University*

- Performed an observation study and collected 39 sample student English pronunciation data in Songbai Middle School in Xiamen
- Performed data analysis using software Praat, analyzed pronunciation transfer on segmental and suprasegmental phoneme level (Bachelor's Thesis)

Compilation of English-Chinese Translation Textbook Oct. 2016 - Feb. 2017
Advisor: Prof. Li Jiang *Beijing Normal University*

- Mined eight principles of Creative Translation, Advertisement Translation and Translation in tourism
- Compiled a comprehensive English-Chinese Translation Textbook aiming for MTI college students

INTERNSHIP EXPERIENCE

Knovva Academy
Instructional Designer

Beijing, China
Dec. 2017 - Mar. 2018

- Designed lesson to developed students' higher-order skills through literature reading *Guns, Germs and Steel*
- Initiated strategy of online activities to attract 76 potential students in the RLG reading literacy program
- Customized course-design through data-cleansing and analytics of learning behaviors as participation rates

Foreign Language Teaching and Research Press
Interaction Designer

Beijing, China
Jul. 2017 - Oct. 2017

- Improved user-stickiness by introducing virtual students when designing K-12 English MOOC and micro-classes
- Increased young audience by 32% through transferring periodicals from paper-media to new-media Wechat
- Assisted online-event by designing speakers' poster using PhotoShop and new media subscription using HTML 5

Qiushi Senior High School
Head Teacher & Summer Camp Organizer

Guizhou, China
Apr. 2017 - Jul. 2017

- Provided unique STEAM education for 120 students by organizing activities of physics/chemistry/psychological experiments, basketball games, chorus and drama performance
- Evoked students' internal motivation of English through innovative courses i.e.poetry translation, drama etc.
- Introduced innovative English pedagogy to five teachers through examples of Communicative Language Teaching (CLT) and Situated Learning Method

Longre English Training Institute
GRE & TOEFL Teacher

Fujian, China
May. 2016 - Sep. 2016

- Instructed 11 students with standard test, who ended in top-tier schools including University of Pittsburgh, Northeastern University, and University of Melbourne
- Guided students to advance math/English simultaneously by applying Content-Based Language Teaching (CBLT)
- Facilitated adult students grasp GRE/GMAT math knowledge(focusing on advanced math), question solving strategy

AWARDS & SCHOLARSHIP

Dean's List Jan. 2016 - May. 2016

- Awarded for outstanding academic record by Christopher Newport University, America

Excellent Bachelor's Thesis Jan. 2017 - May. 2017

- Awarded for outstanding academic record by Christopher Newport University, America

Beijing Normal University First Level Scholarship 2014, 2015, 2017

- In recognition of students with top 5% academic record

First Prize, province-level "FLTRP Cup" National English Reading and Writing Contest 2016

- Awarded for outstanding English academic and creative writing, competed on national level as one of two students representing Beijing Normal University

Beijing Normal University Contest Scholarship 2017

- Awarded for students with outstanding top 10% performance in subject contest in English department

SKILLS

Technical Skills

Python, R, HTML, CSS, JavaScript, SQL, CTAT, L^AT_EX
Machine Learning, Data Analysis and Visualization

Software Skills
Certificate

Weka, LightSide, Minitab, Moodle, Tableau, D3, Sketch, Adobe PS, PR
Secondary School Teacher Certificate (Subject:English)
CATTI (China Accreditation Test for Translators and Interpreter)

Language Skills
Other Skill

Chinese(native), English(fluent), French, German
User-testing and research, Cognitive Task Analysis, Contextual Inquiry
Cognitive Modeling

Standard Tests

TOEFL: 116(R29, L30, S28, W29), IELTS 7.5, GRE 330 (V161+Q169+W4.5)