

# KEXIN YANG

## Education

### Carnegie Mellon University (CMU)

Pittsburgh, PA | Aug 2018-Aug 2019

M.S. Educational Technology and  
Applied Learning Science,  
Human-Computer Interaction Institute,  
School of Computer Science  
GPA: 4.07/4.33

*Merit Scholarship Recipient*

### Beijing Normal University (BNU)

Beijing, China | Aug 2014-Jul 2018

B.A in English Language Literature  
GPA: 3.87/4.0

### Christopher Newport University (CNU)

Newport News, VA | Aug 2015-Jun 2016

Selected to study abroad

Major: English GPA: 3.7/4.0 *Dean's List*

## Skills

### Technical Skills

Python, R, Octave, HTML, CSS, JS,  
SQL, Machine Learning,  
Data Analysis and Visualization

### Software Skills

Weka, LightSIDE, Tableau, D3, PR, CTAT  
PRAAT

### Certificate

Secondary Teacher Certificate

(Subject: English)

CATTI (China Accreditation Test  
for Translators and Interpreter)

### UX Research & Design:

User-testing, Cognitive Task Analysis,  
Contextual Inquiry, Cognitive Modeling

### Language

English (Proficient) Chinese (Native)

French (Intermediate) German (Beginner)

## Research

### Automatic Feedback System for Students Writing

PI: Dr. Carolyn Rosé, Language Technology Institute, CMU

- In collaboration with Turnitin, developed flowchart, guidelines and an intelligent tutoring system for RST (using CTAT)
- Using Natural Language Processing (dependency parsing) and deep learning to automate the structural feedback process

### Teacher Sourcing Hints for Intelligent Tutoring System

PI: Vincent Aleven, Human-Computer Interaction Institute, CMU

- Crowd-sourcing hints for Lynnette, an equation tutor to increase teachers' configurability in intelligent tutoring system

### Role-play Game for Eliciting Learner's Knowledge

PI: Justin Reich, MIT Open Learning

- Analyzing data from ELK platform that prepare teachers better elicit students' prior knowledge.

### Negative Transfer of Mandarin to English Phonetics (BA thesis)

Advisor: Dr. Hui Yu, School of Foreign Language Literature, BNU

- Performed an observation study and analyzed 39 student' English phonetics data for transfer on segmental and suprasegmental phoneme level using PRAAT

## Work Experience

### Renaissance Learning

Pittsburgh, PA

Data Analytic

Jan. 2019- Aug.2019

- Data-mining of students' demographic and achievement data for building a dashboard to give administrators data-driven insights

### Knova Academy

Beijing, China

Instructional Designer Intern

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

### Foreign Language Teaching and Research Press

Beijing, China

UX Design Intern

Jul.2017- Oct. 2017

- Increased young audience by 32% through transferring periodicals from paper-media to digital media Wechat

### Beijing 101 High School

Beijing, China

English Teacher Intern

Oct.2017- Dec. 2017

- Facilitated STEAM education for 120 students by organizing activities of physics/chemistry/psychological experiments, basketball games, chorus and drama performance

## Publication

[1] Shiyan Jiang, **Kexin Yang**, Chandrakumari Suvarna, Pooja Casula, Mingtong Zhang and Carolyn Rose "Applying Rhetorical Structure Theory to Student Essays for Providing Automated Writing Feedback", NAACL workshop, Jun.2019