

Kexin Yang

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Research

Automatic Feedback System for Students Writing

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

- In collaboration with Turnitin, developed a flowchart, guidelines and an intelligent tutoring system for Rhetorical Structure Theory
- Used Natural Language Processing (dependency parsing) and deep learning to automate the process of structural feedback giving

Teacher Sourcing Hints for Intelligent Tutoring System

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

- Based on a real use case, developed a new mechanism of leveraging teachers' expertise and crowdworkers' time to improve on hints in a math intelligent tutoring system at lower cost

Role-play Platform for Eliciting Learners' Knowledge (ELK)

PI: Justin Reich, MIT Open Learning

- Coded and analyzed data of ELK, a teacher education platform, to improve teachers' ability of eliciting 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 students' English phonetics data for transfer on segmental and suprasegmental phoneme level using PRAAT

Professional Experience

Renaissance Learning (Capstone)

Pittsburgh, PA

Data Analyst/ UX researcher

Jan 2019- Aug 2019

- Data-mined a large educational database to build a dashboard to inform school administrators' data-driven decisions
- Worked with clients to address their business need in the education market by conducting user-research (interview, co-design) with target users

Knovva Academy

Beijing, China

Instructional Designer

Dec 2017 - Mar 2018

- Designed lessons to develop students' higher-order skills through reading literature, including *Guns, Germs and Steel*
- Initiated strategy of online activities to attract 76 potential students in the RLG reading literacy program

Beijing 101 High School

Beijing, China

K-12 English Teacher/ Head Teacher

Oct 2017- Dec 2017

- Taught English to 150 9th grade students to prepare them for a high school entrance exam
- Organized STEAM education activities including crafting students agriculture learning experiences

Foreign Language Teaching and Research Press

Beijing, China

Digital Media Editor

Jul 2017- Oct 2017

- Increased young audience through transferring educational periodicals from paper-media to digital media (Wechat)

Education

Carnegie Mellon University (CMU)

Pittsburgh, PA | Aug 2018-Aug 2019

Human-Computer Interaction Institute,
School of Computer Science

MS in Educational Technology and
Applied Learning Science (METALS),

- GPA: 4.07/4.33
- Merit Scholarship Recipient

Beijing Normal University (BNU)

Beijing, China | Aug 2014-Jul 2018

BA in English Language Literature

- GPA: 3.87/4.0
- Graduated with honors

Publication

[1] Shiyan Jiang, **Kexin Yang**,
Chandrakumari Suvarna, Pooja Casula,
Mingtong Zhang and Carolyn Rosé

"Applying Rhetorical Structure Theory
to Student Essays for Providing
Automated Writing Feedback",
NAACL workshop, Jun.2019

Skills

Technical Skills

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

Software Skills

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

UX Research & Design:

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

Languages

English (Proficient) Chinese (Native)
French (Intermediate) German (Beginner)

Certificates

Secondary Teacher Certificate (English)
CATTI (China Accreditation Test
for Translators and Interpreter)