Yue Ma

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EDUCATION

University of Michigan, Ann Arbor (UMich), Michigan, US   09/2018-05/2020

Master's Degree in Educational Studies

Core Courses: Research and Educational Practice, Foundational Perspectives on Educational Reform, How We Learn, Global English Role, Foundational Data Collection, etc.

North-western Polytechnical University (NPU), Xi'an, China   09/2012-07/2016

Bachelor's Degree in Materials Science and Engineering

PUBLICATIONS

Papers:

- Ma HL , Zhao M, Wang XH, *Ma Y*. Promoting Self-efficacy in Computational Thinking of School Teachers. CSSE 2020 Conference, London, Ontario, CA,2020.
- Li L, Kang HH, Zhou G, *Ma Y*. The Case Method of the Impact of Jack Ma Rural Normal University Students Program on Beginning Teachers' Professional Development. Contemporary Teacher Education.

RESEARCH EXPERIENCES

Undergraduate Teaching in Mathematics with Open Software and Textbooks   12/19-present

Research Assistant   Advisor: Dr. Vilma Mesa

• Write a part of an Executive Report for the National Science Foundation;

• Analyse teachers' survey of 28 instructors on 85 items;

• Cooperate with Prof. Mesa to do the data analysis work of 39 interviews;

• Analyse the video-taped classroom observations.

Specialized Content Knowledge Project   01/20-06/20

Research Assistant   Advisor: Professor Mark Hoover

• Transcript interviews of teacher educators and researchers in UMich;

• Code the transcripts.

Ma Yun Rural Talent Plan Evaluation Project   05/2019-09/2019

Researcher   Advisor: Dr. Peng Chen & Dr. Hongliang Ma

- Independently designed interview questions and conducted face-to-face interviews with 15 first-year teachers with the aim of gaining insight into teachers' thoughts on the project;
- Assisted the teachers in designing the questionnaire questions, covering the content of the plan, the summer training, and the satisfaction survey of the plan, which obtained a feedback rate of 80%;
- Modified the Teaching and Learning International Survey, such as adding some topics related to the *Ma Yun Rural Talent Program* to better investigate the ethnic information of teachers;
- Prepared a 40,000-word rural teacher assessment report based on the research results.

Promoting Self-efficacy in Computational Thinking of School Teachers   05/2019-12/2019

Research Assistant   Advisor: Dr. Hongliang Ma

- Assisted in data collection and data analysis on Pre- and Post-test of self-efficacy in Computational Thinking;
- Assisted in writing an article about promoting self-efficacy in computational thinking of schoolteachers.

PROFESSIONAL EXPERIENCES

Red Star Primary School   08/2017-07/2018

Math teacher, Mathematics department

- Taught mathematics to 50 primary school students;
- Established an effective communication mechanism with other teachers during the working time;

- Cooperated with other teachers on the revision of the syllabus.

TAL Education Group 07/2016-06/2017

Math teacher, Mathematics department

- Taught mathematics to 150 junior high school students;
- Conducted case revision to existing syllabuses in order to allow students to better understand mathematics from a deep perspective;
- Proposed the implementation of differentiated instructions in classroom and differentiated assignments for students, and successfully helped 90% of students to increase an average mark of 30%.

EXTRACURRICULAR ACTIVITIES

Leader of college students' social practice in Aviation Industry Corporation of China, Chengdu 08/2015

- Developed understanding of the operating process of various crafts;
- People arrangement and time arrangement.

Head of volunteer service team in North-western Polytechnical University 09/2012-09/2014

- Organized voluntary activities;
- Wrote and modify proposals.

Leader of summer volunteer teaching in Zhangyi Town Primary School 07/2013-08/2013

- Wrote the record articles for the voluntary work;
- Made short promotional videos;
- Taught math to primary school students.

SELECTED HONOURS & AWARDS

- *Third prize* in Digital Model Competition (awarded to *Top 30%*), NPU 06/2015
- *Third prize* in Digital Model Competition (awarded to *Top 30%*), NPU 06/2014