

# Qiuyu Chen

Tel: +86-15221550452/Email: [amberecnu@163.com](mailto:amberecnu@163.com)

Personal Website: <https://qychen86.github.io>

## EDUCATION

---

- East China Normal University (ECNU)**, Shanghai, China 09/2021-07/2024  
- Supervisor: Prof. Lianghuo Fan  
- *Master of Science in Mathematics Education*; GPA: 3.84/4.0
- East China Normal University (ECNU)**, Shanghai, China 09/2017-07/2021  
- *Bachelor of Science in Mathematics and Applied Mathematics*; GPA: 3.66/4.0

## PUBLICATION

---

- A Study on Characteristics and Functions of Non-textual Elements in Junior Secondary School Mathematics Textbooks: An Example of Zhejiang Education Press Series of Textbooks** 08/02/2023  
Publisher: Journal of Mathematics Education (ISSN: 1004-9894)  
Authors: Lingzhu Li, **Qiuyu Chen**.
- How Is Educational Gamification Represented in School Curriculum? An Investigation of Chinese Secondary Mathematics Textbooks** 02/20/2023  
Publisher: Sustainability (ISSN 2071-1050) 2023, 15(4), 3830  
Authors: Lianghuo Fan, Lingzhu Li, **Qiuyu Chen**, Na Li.  
Link: <https://doi.org/10.3390/su15043830>
- Viewing Mathematics Teacher Educators and Their Research Methods from TSG-35 of ICME-14** 07/19/2022  
Publisher: SHUXUE JIAOXUE (ISSN 0488-7387)  
Authors: Lingzhu Li, **Qiuyu Chen**.
- The Challenges and Countermeasures of Online Teaching for High School Mathematics Teachers — A Survey of Teachers in Shanghai and Jiangsu Province During the Pandemic** 06/07/2021  
Publisher: Shanghai Teachers  
Authors: **Qiuyu Chen**, Lianghuo Fan.

## PAPERS IN PROGRESS

---

- Mathematical Learning in Programming Environments: Integrating the Mathematical and Computational Lenses (In Preparation)** 10/21/2023-Present  
Authors: Biyao Liang, **Qiuyu Chen**, Ying Zhang
- Characterizing the Role of Programming Outputs in Mediating Students' Mathematical Learning (Submitted)** 07/31/2023-09/21/2023  
Authors: **Qiuyu Chen**, Biyao Liang, Ying Zhang
- How are Non-textual Elements (NTEs) Presented in the Chinese Secondary School Curriculum? An Investigation of Mathematics Textbooks** 04/06/2023-Present  
Authors: Lingzhu Li, Na Li, **Qiuyu Chen**, Lianghuo Fan
- Uncovering Chinese Students' Development of Procedural Flexibility** 02/20/2023-Present  
Authors: **Qiuyu Chen**, Lianghuo Fan

## PROJECT EXPERIENCE

---

- Research Assistant**, Investigating Interplays Between Computational Thinking and Mathematical Thinking

05/2023-Present

- Supervised by Assistant Prof. Biyao Liang (The University of Hong Kong) and Associate Prof. Oi-Lam Ng (The Chinese University of Hong Kong);
- Designing and conducting task-based clinical interviews to investigate students' computational thinking and mathematical thinking, and analyzing the data through the lens of Piaget's learning theory.

**Project Member, Investigating Students' Learning Opportunity to Procedural Flexibility: A Comparative Study of Mathematics Textbook Between the US And China**

03/2023-Present

- Supervised by Prof. Lianghuo Fan and Prof. Jon R. Star (Harvard University); Co-member: Dr. Sicheng Xie (ECNU);
- Adjusting the conceptual framework on types of content facilitating procedural flexibility;
- Carrying out the coding of the mathematics textbooks in China and the US.

**Research Assistant, Research on Experiment and Evaluation of Mathematics Textbooks in Shanghai High School**

10/2022-03/2023

- Supervised by Prof. Lianghuo Fan and Lecturer Jing Chen (ECNU);
- Conducted teacher and student interviews and classroom observations in junior high schools, then transcribed audio and video materials.

**Research Assistant, Chinese Students' Access, Use and Perceptions of ICTs in Learning Mathematics: Findings from an Investigation of Shanghai Secondary Schools**

11/2020-02/2021

- Supervised by Prof. Lianghuo Fan;
- Typed in the questionnaire data and analyzed the interview data.

## PROFESSIONAL EXPERIENCE

---

**Teacher of Mathematical Modeling, Shanghai Mingzhi Education Technology Company**

10/2020-Present

- Developing mathematical modeling teaching resources (e.g. syllabus and courseware);
- Teaching the mathematical modeling course.

**Assistant, Shanghai Teacher Training Center**

10/2022-06/2023

- Participated in the special workshop on school-based research Experience in Teacher Professional Development Schools and helped the participating teachers enhance their scientific research capacity;
- Conducted classroom observations between Chinese schools and international schools.

**Teaching Assistant, Mathematics Education Research and Thesis Writing Courses**

02/2023-06/2023

- Assisted with course development, such as collecting course materials and answering students' questions;
- Videotaped the course-taking process.

**Teaching Assistant, No.2 High School of East China Normal University, Zizhu**

03/2022-05/2022

- Corrected students' mathematics homework after class;
- Observed school mathematics classrooms of outstanding teachers.

## HONORS & AWARDS

---

**First-class Scholarship of Publishing Wisdom Scholarship, ECNU** 10/2022

**Outstanding Graduate of Shanghai, Shanghai Municipal Education Commission** 05/2021

**Second-class Scholarship for Outstanding Students in 2019-2020 Academic Year, ECNU** 12/2020

**Third-class Scholarship for Outstanding Students in 2018-2019 Academic Year, ECNU** 12/2019

**The Second Prize of the Undergraduate Group of the National Mathematical Contest in Modeling for College Students in Shanghai, Shanghai Municipal Education Commission** 12/2019

**The Third prize of Mathematics Class A in the 11th Shanghai Mathematics Competition for College Students (Higher Education Community Cup), Shanghai Mathematical Society** 11/2019

**The Honor of "Excellent Student" of ECNU in the 2018-2019 academic year, ECNU** 12/2019

<b>The Third prize of the 11th National Mathematics Competition for College Students (Mathematics A),</b>	
Chinese Mathematical Society Popularization Working Committee	11/2019
<b>Second-class Scholarship for Outstanding Students in 2017-2018 Academic Year, ECNU</b>	12/2018

## LEADERSHIP & ACTIVITIES

---

<b>Student Visitor</b> , Overseas Study Tour in the National University of Singapore	07/2019-08/2019
<b>Advisor</b> , Middle school Mathematical Contest in Modeling (MidMCM)	02/2021 & 02/2022
<b>Member</b> , ECRD Workshop Organization, The 14th International Congress on Mathematical Education	06/2021
<b>Volunteer</b> , The Sunflower Community of Children's Service Center	12/2020-02/2021
<b>Volunteer</b> , Topic Study Group, The 14th International Congress on Mathematical Education	06/2021
<b>Director</b> , Guanghua News Agency of East China Normal University	09/2018-07/2019
<b>General Secretary</b> , Guanghua News Agency of East China Normal University	09/2017-07/2018
<b>Volunteer</b> , China (Guangzhou) International Documentary Festival Golden Rouge Film Exhibition University Tour Exhibition—East China Normal University Exhibition Activity	04/2018

## SKILLS & HOBBIES

---

### Quantitative Research Skills

- Familiar with Python and SPSS;
- Accustomed to several statistical models (e.g. Linear regression model, Wilcoxon rank sum test) and data mining methods (e.g. EM algorithm).

### Qualitative Research Skills

- Capable of and confident in conducting interviews or research-based activities;
- Experienced in qualitative analysis platform (MAXQDA).

### Hobbies

- Fond of playing the zither (the 10<sup>th</sup> level certificate), playing badminton, and photography.