

# Zehao Wang

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## Education

- **UC San Diego** **California, U.S.A.**  
*Ph.D. student in Computer Music* **2021 - Present**  
Department of Music  
Committee: Thomas Erbe(Chair, Music), Miller Puckette(Music), Rand Steiger(Music), Xiaochuan Tian(Math), Stefan Bilbao(Music, University of Edingurgh)
- *Master of Arts* **2021 - 2023**  
Department of Music  
Committee: Miller Puckette(Chair), Thomas Erbe, Tamara Smyth
- **Peking University** **Beijing, China**  
*Bachelor of Science in Data Science* **2017 - 2021**  
School of Mathematical Sciences

## Experience

### Academic

- **New York University Shanghai** **Shanghai, China**  
*Music X Lab* **May 2020 - Jul 2021**  
**Host:** Prof. Gus G. Xia
- **School of Psychological and Cognitive Sciences, Peking University** **Beijing, China**  
*Bao Lab* **Mar 2020 - Jul 2021**  
**Advisor:** Prof. Yan Bao
- **School of Mathematical Sciences, Peking University** **Beijing, China**  
*Deep Leaning Lab* **May 2019 - Sep 2020**  
**Advisor:** Prof. Zhanxing Zhu
- **Wangxuan Institute of Computer Technology, Peking University** **Beijing, China**  
*Digital Audio Lab* **Apr 2018 - Dec 2019**  
**Advisor:** Prof. Xiaou Chen

### Industry

- **TikTok, ByteDance** **U.S.**  
*Research Intern* **Jun 2022 - Sep 2022**
- **Yamaha** **Japan**  
*Research Intern* **Mar 2022 - Jun 2022**
- **ByteDance** **China**  
*Research Intern in AI Lab* **Nov 2020 - Mar 2021**
- **ByteDance** **China**  
*Research Intern in AI Lab* **Dec 2019 - Sep 2020**
- **Microsoft** **China**  
*Research Intern in Speech Group* **Jun 2019 - Dec 2019**

## Teaching and Other Music Experience

- **Academy of Opera, Peking University** **Beijing, China**  
*Adjunct Piano Accompanist* **Apr 2019 - Jul 2021**
  - Working for rehearsal and concert, including art songs, chorus and opera.

## ○ Teaching

- Teaching assistant:
  - MUS4, Introduction to Western Music, 2023 Winter, UC San Diego
  - MUS6, Electronic Music, 2022 Fall, UC San Diego
  - MUS175, Musical Psychoacoustics, 2022 Spring, UC San Diego
  - MUS174B, Audio & MIDI Techniques II, 2022 Winter, UC San Diego
  - MUS174A, Audio & MIDI Techniques I, 2021 Fall, UC San Diego
  - Economics and Computation, 2019 Summer, Peking University
- Lecturer:
  - American Mathematics Competitions (in English), 2020 Summer, Online
  - Mathematical Olympiad, 2017 Summer, Zhengzhou No.1 High School

## ○ Other music experience

- Independent music producer (on Xiami Music & Netease Music)
- Orchestra and choir arranger
- Piano accompanist, chamber music conductor

## Skills

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- **Programming:** Python, C++, Matlab, Julia, R
- **Framework:** CUDA; Pytorch & TensorFlow (Deep Learning); JUCE, Csound, Supercollider, Puredata and Faust (Music Related)
- **Language:** Chinese(Native), English(Fluent)

## Honors and Awards

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The <b>First Prize</b> of Contemporary Undergraduate Mathematical Contest in Modeling	Sep 2018
The <b>Silver Medal</b> of 32nd Chinese Mathematical Olympiad	Dec 2016
The <b>Second Place</b> of 32nd National Mathematics League in Henan Division	Sep 2016
The <b>Third Place</b> of 13th Chinese Southeast Mathematical Olympiad	Aug 2016
The <b>First Place</b> of Pearl River - Kayserburg International Youth Piano Competition	Aug 2015
The <b>Second Prize</b> of Musical Ensemble Track in Art Festival of Henan Province	Jul 2015