Hongwei (Vincent) Cai

he/him/his

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EDUCATION

The University of Iowa, Iowa City, IA

MCS, Computer Science   Anticipated May 2025

- GPA: 4.0/4.0

Ph.D., Composition   Anticipated December 2023

- Awarded Marcus Bach Fellowship, for outstanding doctoral dissertation
- Received Graduate College Summer Fellowship Award
- Awarded Henry and Parker Pelzer Fellowship Award
- GPA: 3.77/4.0

The Oklahoma City University, Oklahoma City, OK   May 2015

M.M. Composition

- Awarded "Graduate Music Talent Scholarship"

Shenyang Conservatory of Music, Shenyang, China   July 2012

B.Lit. Composition and Theory

- Attained "Outstanding Student" honor title
- Won First Place for the annual Piano Competition
- Awarded "College Scholarship"

SKILLS

Technical Skills

- C/C++, Java, Perl, Haskell, Agda
- HTML5, CSS3
- Python, JavaScript, PHP, Bash, PowerShell
- ARM, X86
- SQL, MySQL
- AWS practitioner

Other Skills

- Music composition
- Piano performance
- Music engraving
- Music processing and editing
- Electronic Music
- Sound designing
- Problem solving
- Teaching
- Public Speaking

TEACHING EXPERIENCE

Teaching Assistant

CS Department, University of Iowa, Iowa City, IA   Spring 2023

- Led two lab sessions weekly for Computer Organization, instructing a group of 20 students during 75-minute classroom
- Set weekly office hours
- Assessed assignments and projects

Instructor   2017 – 2020

School of Music, University of Iowa, Iowa City, IA

- Taught Music Composition
- Coached non-major students in one-on-one setting to enhance their composition skills

- Developed lesson plans from weekly course outline and examples to suit needs of the class
- Evaluated assessments and final projects

RESEARCH EXPERIENCE

Research Assistant
  Center for New Music, University of Iowa, Iowa City, IA August2018-May 2019
- Assisted in coordinating concerts, workshops, and various events at the Center for New Music
- Offered technical support for equipment and displays employed in new music research to enhance concert experiences

COMPUTER SCIENCE PROJECTS

Website Building and Design   July 2023

- Boosted various coding languages including HTML, CSS, JavaScript, PHP, and SQL

HONOURS & AWARDS

Marcus Bach Graduate Fellowship   Jan 2023

- Issued by the University of Iowa College of Liberal Arts and Sciences
- 10,000 cash awards for promoting intercultural communication and understanding of diverse philosophies and religious perspectives

Graduate College Summer Felowship   Jun 2021

- Issued by The University of Iowa Graduate Collage

Henry and Parker Pelzer Fellowship Award (twice)   Apr 2017 and Apr 2019

- Issued by The University of Iowa Graduate Collage
- 10,000 cash awards to an outstanding composer each year

CONFERENCE

- Midwest Graduate Music Consortium   2021
- Exchange of Midwest Collegiate Composers   2017 & 2018
- Midwest Composers Symposium   2017 – 2019

WORKSHOPS

- Introduction to HPC using Argon Cluster   July 2023
- Cloud Computing Workshop Series   Summer 2023
- Engaging Across Cultures: Navigating Intercultural Conflicts   December 2020
- Composing for Video Games with Thomas Chance   May 2015

CURRENT AFFILIATIONS

- ACM (Joined 2023)
- Phi Beta Delta Honor Society for International Scholars (Joined April 2021)
- American Society of Composers, Authors, and Publishers (Joined 2019)
- Society of Composers, Inc. (Joined 2019)
- Golden Key International Honor Society (Joined 2017)