Joann Ching

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Personal Website & Portfolio: https://joann8512.github.io/JoannChing.github.io/

Education

The National Chiao Tung University	**Fall 2019**
Algorithms	
The University of Texas at Austin	**2015 - 2019**
Bachelor of Music in Music Performance (Violin)	
Elements of Computing Certificate (Computer Science minor, 2 more classes to receive certificate)	

Awards

The Butler School of Music Scholarship	**2015 - 2019**
Bowdoin International Music Festival Scholarship	**2013 July - Aug**

Technical Skills

Programming Languages: Java, Python, MATLAB, JavaScript

Software: Microsoft Office Suite, ProTools, GarageBand, MuseScore, Sibelius, Finale, Audacity, Elementary proficiency in Adobe Photoshop, 16-channel soundboard

Research: Music information retrieval/ MIR, Machine Learning, Data Analysis, Statistics, Audio Signal Processing, Software Engineering

Musical Skills: Violin, Piano/Keyboard, Percussion, Directing, Music Theory (Classical, 20th century), Music History (Classical, 20th century, Jazz)

Fluent Language: Fluent Mandarin Chinese, English

Research Experience

Publications

- **Ching, J.**, Ramires, A., Yang, Y-H. (2020). Instrument Role Classification: Auto-tagging for Loop Based Music. In 2020 Joint Conference on AI Music Creativity. ISBN: 978-91-519-5560-5

- Ramires, A., Font, F., Bognadov, D., Smith, J. B. L., Yang, Y-H., **Ching, J.**,…Serra, X. (2020). The Freesound Loop Dataset and Annotation Tool. In 21st International Society for Music Information Retrieval (ISMIR)

Poster Presentations

- **Instrument Role Classification: Auto-tagging for Loop Based Music** (2020). *Joint Conference on AI Music Creativity (CSMC+MuMe).* Stockholm, Sweden (Virtual Conference).

- **The Freesound Loop Dataset and Annotation Tool** (2020). *21st International Society for Music Information Retrieval (ISMIR).* Montreal, Canada (Virtual Conference).

Professional Involvement

- Attendee, 7th TMAC Workshop (Taiwanese Music and Audio Computing Workshop)
- Volunteer, ISMIR (International Society for Music Information Retrieval)
- Reviewer, ISMIR (International Society for Music Information Retrieval)
- Mentee, WiMIR (Women in Music Information Retrieval)

Research Projects

Multimodal Generation for Music and Lyrics
First Author, Research Assistant
- Developed project direction and planned the project with Dr. Yi-Hsuan Yang and a colleague
- Joint collaboration with Prof. Juhan Nam
- Bi-weekly meetings across the labs and weekly reports to Dr. Yang

Chord Estimation Dataset
Contributor
- Collaboration with Prof. Jyh-Shing Jang's lab
- Verify the validity of chord annotations for songs and correct them if needed

Beat Tracking for Classical Music
Second Author
- Analyze behaviors of models with domain knowledge in classical music
- Discuss problems and solutions with the first author
- Create and analyze the questionnaire for user studies
- Contribute to the evaluation section for the research paper
- Submission to ICASSP 2020

Loop Role Classification
First Author
- Collaboration with Antonio Ramires from MTG, UPF
- Planned and conducted the project as the first author
- Wrote the paper with some assistance from Antonio and Dr. Yang
- Submission to the 2020 Joint Conference on AI Music Creativity

Piano Composer Classification
Project
- Practice project for figuring out potential projects
- Created a small dataset for the task
- Analyze the results of the predictions
- Pass analysis for further research to other colleagues

FreeSound Loop Dataset
Contributor
- Collaborated with researchers, and doctoral students from Korea, England, and Spain
- Annotate audio files to create a dataset for loop music
- Discussions with all the contributors
- Submission to ISMIR 2020

Other Experiences

Philharmonia Moments Musicaux	**2020 July - Present**
President of the Austin Chinese Church Campus Fellowship	**2016 - 2019**
Worship Team Leader at Austin Chinese Church	**2016 - 2019**
Butler Opera Center Orchestra	**2019 April - May**
SXSW Audio Engineer	**2018 March**
University of Texas Symphony Orchestra	**2015 - 2019**
Good House Collective Concert	**2017 December**
National Taiwan University Symphony Orchestra Concert Tour	**2017 July - August**