

# YI-TING (KRISTY) TSAI

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## EDUCATION

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### **Carnegie Mellon University, Entertainment Technology Center (ETC)**

Master of Entertainment Technology

**Pittsburgh, PA**

09.2018 - 05.2020

### **The University of Hong Kong, Faculty of Engineering**

Bachelor of Engineering in Computer Science

**Hong Kong**

09.2014 - 05.2018

Minor in Spanish

### **Relevant coursework:**

Computer Vision and Graphics, Software engineering, Visual Story, Web Programming and Design, Computer Game Design and Programming, Design and Analysis of Algorithms

## SKILLS

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**Programming:** Python, MEL, C++, HTML, CSS, JavaScript, MySQL, Java, C, C#, Matlab

**Applications:** Autodesk Maya, Dreamweaver, Photoshop, Android Studio, Unity3D, Final Cut pro, Microsoft office

**English Proficiency:** IELTS: 7.5 out of 9; **Mandarin:** Native Speaker; **Spanish:** Intermediate

## ACADEMIC PROJECTS

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### **Artist / Producer, Building Virtual Worlds** (course project) | ETC, CMU

Fall 2018

- A round of rotational five-person team of interdisciplinary collaboration in 2 weeks, 5 rounds in total
- Implement story telling projects in platform of Meta II, HTC Vive, Phidgets, Oculus and Leap motion
- Build game assets by 3D modeling, rigging, texturing, animation using Maya
- Agile and creativity development and teamworking
- Design game mechanics and interactions
- Time management and communicate effectively for team vision

### **Final year project** | The University of Hong Kong, Hong Kong

09.2017 - 05.2018

- Final year project on a Piano Self-Learning Assistant application in Mixed Reality on *Microsoft HoloLens*
- Work on piano keyboard recognition with computer vision and Vuforia target
- Design user interface of the application and analyze user experience of playtesting

## WORK & INTERNSHIP EXPERIENCE

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### **Front End Engineer Summer Intern** | E-Century Information and Technology Co., Taiwan

06.2016 - 07.2016

- Assist Taiwan National Palace Museum and Taiwan Tourism Bureau Main Webpage front end programming
- Collaborate and communicate with front end designer

### **Summer intern** | Academia Sinica Research Center for Information Technoloy, Taiwan

07.2017 - 08.2017

- Build and train Deep Neural Network based model of speech enhancement for Cochlear Implant users
- Complete user testing process and analyze the result of the model performance

## VOLUNTEER & EXTRACURRICULAR EXPERIENCE

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### **Student Ambassador** | Hong Kong University Lap-Chee College, Hong Kong

09.2015 - 06.2018

### **Executive Director** | Taiwanese Student Association in Hong Kong University, Hong Kong

09.2015 - 05.2016

### **Exchange Participant** | Aiesec Norway project Skedsmo, Oslo, Norway

06.2015 - 07.2015

## AWARDS

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**Best Poster Presentation award** | MIT Undergraduate research Technology Conference, 2017

**Best IP Rights Awareness** | Hong Kong BSA start-up challenge 168, 2015

## PUBLICATION

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“Fully convolutional network (FCN) model to extract clear speech signals on non-stationary noises of human conversations”, **First author**, MIT IEEE URTC 2017