

# Luting Wang

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## Education

### Carnegie Mellon University

MASTER OF ELECTRICAL AND COMPUTER ENGINEERING

- GPA: 4.0/4.0
- Selected Coursework: Cloud Computing, Web Application, How to Write Fast Code, Computer Vision

Pittsburgh, PA

May 2017 (expected)

### Sun Yat-sen University

BACHELOR OF ELECTRONICS AND INFORMATION TECHNOLOGY

- GPA: 3.8/4.0
- Graduate with honor thesis (Acceptance Rate:1%): Research on "smart" active pixel sensor

Guangzhou, China

July 2015

## Internship

### NVIDIA Corporation, Android Web Service Team

SOFTWARE ENGINEERING INTERN

- Implemented and developed pipeline framework to collect, analyze and visualize user data from NVIDIA's products saved in MongoDB and PostgreSQL.
- Designed parallel system to leverage aggregated data to create valuable features for product improvement, including download speed and daily active user features.

Shenzhen, China

June-August 2016

### Chinese Academy of Sciences, Institutes of Advanced Technology

RESEARCH ASSISTANT INTERN

- Researched and analyzed different algorithms on rain detection and removal from videos.
- Implemented a fast algorithm that can be used in heavy rain weather, increasing the resolution of videos.

Shenzhen, China

May-July 2015

## Projects

### Voice Conversion for Mandarin Electrolaryngeal Speech

RESEARCH PROJECT - MASTER THESIS

- Designed and developed a hybrid approach for electrolaryngeal voice conversion using Non-negative Matrix Factorization (NMF) and Gaussian Mixture Model (GMM) on Matlab.
- Enhanced the naturalness and intelligibility of converted speech, reduced speech feature distortion by 7.1 dB and increased the pitch correlation coefficient to 0.54.

Spring 2016

### Movie Rating with Collaborative Filtering

COURSE PROJECT

- Built and implemented an Item-Based Recommendation System with Hadoop using 10 million ratings on Amazon Web Services.
- Further Developed it with Apache Spark to achieve 2x speed up.

Spring 2016

### Speech Recognition System of Telephone Numbers

COURSE PROJECT

- Designed and constructed an integrated speech system to recognize telephone numbers using C++ on Visual Studio.
- Applied it on Aurora2 corpus with 8400 training recordings and 1000 testing recordings, which achieved 75% recognition accuracy.

Fall 2015

## Skills

<b>Programming</b>	C/C++, Java, Python, Scala
<b>Tools</b>	Hadoop, Spark, Bootstrap, OpenMP, Git, Latex, Matlab
<b>Knowledge</b>	Cloud Computing, Machine Learning, OOP, HTML, CSS
<b>Database</b>	PostgreSQL, MongoDB

## Honors

Apr. 2014	<b>The Meritorious Winner</b> , The Mathematical Contest In Modeling (MCM)
Oct. 2014	<b>The Best Oral Presentation Award</b> , The 6th International Conference on CAD-TFT

## Publication

Luting Wang, Kai Wang, Jun Chen, A Numerical Study of an Amorphous Silicon Dual-Gate Photo Thin-Film Transistor for Low-Dose X-ray Imaging, Journal of Display Technology, 2015