

# Yating Wu

Dalian University of Technology(DUT)

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## EDUCATION

### Dalian University of Technology

B.Eng. in Computer Science & Technology(Intensive Japanese)

Overall GPA: 91.94 Rank: 1/45

*Dalian, China*

*Expected Jul. 2019*

### The University of Tokyo

Undergraduate Exchange Student in Information & Communication Engineering

Studied and Researched at Aizawa Yamasaki laboratory

*Tokyo, Japan*

*Sept. 2017 - Aug. 2018*

## RESEARCH & PROJECT

### CNN-Based Classification of Depression from Audios

-Supervised by Associate Professor Toshihiko Yamasaki

*Tokyo, Japan*

*Apr. 2018 - Jul. 2018*

- Preprocessed data to get relative ideal data set, by python.
- Transferred audios into spectrogram information and extracted features, by python.
- Optimized a Depression Classifier with *VGG19* structure, by python.
- Improved 3% in ROC curve, 3.2% in F1 score, 15.3% in recall scores compared with baseline CNN; performed better than a more complicated model named DepAudioNet.

### Course Projects

Lead Developer

*Dalian, China & Tokyo, Japan*

*Jul. 2017, Feb. 2018*

- Wrote a colored Tetris Game with different levels; as the level went higher the blocks fell faster, by C.
- Wrote a ICA project that could separate waves, music, and photos without using any ICA tools, by python.
- Got excellent feedbacks and A scores for both of the two projects.

### TI CUP Intelligent Car Contest

Test Developer

*Dalian, China*

*Dec. 2016*

- Wrote & Tested programs on intelligent car to make it run by route, by Keil C51.
- Speeded up the car by refining its structure and codes, by Keil C51 and Altium Designer.
- Took second place in the car race of 61 teams (2/61).

### TI CUP Electronic Design Contest

Lead Developer

*Dalian, China*

*Dec. 2014, 2015, 2016*

- Designed & Tuned a mini audio power amplifier, by Altium Designer
- Co-worked a smart flower pot that is self-watering and turns according to the position of sun.
- Won the first prize for this smart pot among 150 teams(Top 10%).

## HONORS

China Scholarship Council scholarships

Learning Excellence Award in DUT(Top 5% once, Top 15% twice)

First prize in *DUT TI CUP* Intelligent Car Contest(Top 5%)

First prize in *DUT TI CUP* Electronic Design Contest(Top 10%)

Second prize in *DUT TI CUP* Electronic Design Contest(Top 20%)

*Sept. 2017 - Aug. 2018*

*Oct. 2015, 2016, 2017*

*Dec. 2016*

*Dec. 2016*

*Dec. 2014, 2015*

## PUBLICATION

**Yating Wu**, Toshihiko Yamasaki. CNN-Based Classification of Depression from Audios.The 21st Meeting on Image Recognition and Understanding(MIRU) 2018 , PS3-58, Aug.5-8, 2018, Sapporo.

## SKILLS

Language: Chinese(Native), English(Fluent), Japanese(Fluent) JLPT N1(percentile rank: 90.3%)

Computer Languages: proficient at C/C++, Python, familiar with Verilog, Ocaml, HTML/CSS, L<sup>A</sup>T<sub>E</sub>X

Technologies: proficient at Altium Designer, Tensorflow, Jupyter, Adobe Audition, familiar with MATLAB