

# Chih-Hao Wang

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## EDUCATION

### Waseda University

Computer Science and Engineering, B.E. – GPA: 3.94/4.00

Honors: Scholarship for Successful International Examinees, Global Leader Support Scholarship

Tokyo, Japan

Sep 2015 – Mar 2020

### National University of Singapore

One-year university exchange program

Singapore

Aug 2017 – May 2018

## PUBLICATION

**Wang, C.H.**, Kato, S., and Sakai, T.: RSL19BD at DBDC4: Ensemble of Decision Tree-based and LSTM-based Models, *Proceedings of WOCHAT and DBDC, IWSDS 2019*, pdf at [arXiv:1905.01799](https://arxiv.org/abs/1905.01799)

- Investigated Decision Trees and DNN approaches for the Fourth Dialogue Breakdown Detection Challenge.
- Ranked 1st, 2nd place among all participants in performance on the English, Japanese dataset, respectively.

## EXPERIENCE

### Waseda University Sakai Laboratory – Research Member

Sep 2018 – Mar 2020

Advisor: Prof. Tetsuya Sakai

- Investigated ML approaches for NLP, including sentiment analysis, dialogue breakdown detection, and dialogue nugget detection.

### LeapMind – Summer Intern (Deep Learning) – [Internship Blog](#)

Aug – Sep 2019

- Developed an original DNN for optical flow estimation on CPU and FPGA-based devices.
- Reduced the neural network inference time by 53.14% with low-bit quantize-aware training.
- Received the Chief Research Officer award for outstanding performance and teamwork.
- **Tools:** TensorFlow, Python

### Yahoo! – Intern (E-commerce Backend Engineer)

Jul – Aug 2018

- Created RESTful APIs by negotiating with 2 designers and 2 frontend engineers in a scrum team.
- Increased throughput by 274% with 95th percentile response time less than 200ms using Redis.
- Scaled the project with load balancing and boosted performance using proxy caching.
- **Tools:** Node.js, Swagger, Apache Traffic Server, Redis, MySQL, JMeter, Screddriver.cd

### Waseda University – Teaching Assistant (Introduction to Programming)

Apr – Jul 2017

- Assisted the professor to facilitate the teaching of a C programming course with 60+ students.
- Provided programming ad-hoc consultation sessions in English, Japanese, and Chinese.

## PROJECTS (more at [github.com/OscarWang114](https://github.com/OscarWang114))

### WasedaTime • [www.wasedatime.com](http://www.wasedatime.com)

Dec 2017 – Present

Self-initiated Project – [Source Code](#)

- Leading a 3-person team to develop a full-stack web application for Waseda students, which has acquired more than 4,000 returning users and 300K page views.
- **Tools:** JavaScript, React, Redux, Node.js, Travis CI

### Sentiment Analysis on Movie Reviews

Nov 2018 – Feb 2019

Kaggle Challenge – [Source Code](#)

- Investigated DNN models for sentiment classification of IMDb movie reviews.
- Achieved an AUC score above 0.90 with FastText embeddings, CNN, and BiLSTM.
- **Tools:** Keras, Python, Google Cloud Platform

## SKILLS

- IT: Python, Java, C, HTML5, CSS3, JavaScript, SQL Databases, MongoDB
- Languages: English (TOEFL: 117/120), Japanese (N1), Chinese (Native)