

# Yuan-Jui(Henry) Chen

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🌐 <https://github.com/henryhenrychen>

## Research Interests

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**Natural Language Processing, Data Science, Machine Learning**

## Education

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### National Taiwan University(NTU)

*Taipei, Taiwan*

B.S. IN COMPUTER SCIENCE AND INFORMATION ENGINEERING(CSIE)

2013 - PRESENT

- GPA: Overall 3.86/4.3
- Relevant Courses(selected): Multimedia Analysis and Indexing\*, Digital Speech Processing\*, Human Computer Interface, Video Communication\*, Computer Graphic\*, Fintech\* (\*:graduate-level courses)

### Université de Technologie de Troyes(UTT)

*Troyes, France*

B.S. IN INFORMATIQUE ET SYSTÈME D'INFORMATION

2016 - 2017

- Relevant Courses: Artificial Intelligence, Data Mining

## Work Experiences

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### Institute of Information Science

*Academia Sinica, Taiwan*

ADVISOR: MA, WEI-YUN

RESEARCH ASSISTANT

Sept. 2017 - PRESENT

- Funded by Ministry of Science and Technology's project: "Intelligent news and customer service dialogue system"
- Worked on designing a mechanism to crowd-source a negotiation and bargain dialogue data
- Proposed and assessed an end-to-end bargain dialogue system for obtaining maximum value and also higher agree rate

SUMMER INTERN

Jul. 2017 - Aug. 2017

- Implemented a complete Chinese chatbot for hotel-booking with language understanding, dialogue management and a NN-based language generation model using TensorFlow

## Research Experiences

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### System Modeling and Dependability Lab

*UTT, France*

ADVISOR: BABIGA BIRREGAH

Feb. 2017 - Jun. 2017

- Built a model for tracking the development of users' focus on an event according to the hashtags on Twitter .

### Communication and Multimedia Lab

*NTU, Taiwan*

ADVISOR: WINSTON HSU

2015 - 2016

- Worked on a image captioning model and proposed a method of mean-pooling to apply it to annotate a series of photos from an event.

## Teaching Experience

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### Department of Foreign Languages and Literatures, NTU

TEACHER ASSISTANT

Sept. 2017 - PRESENT

- Teach speaking class with handouts made by myself
- Instruct students to complete their homework .

## Honors & Awards

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### Ranked No.6 in Formosa AI Great Challenge(Organized by Ministry of Science and Technology R.O.C)

*Taipei, Taiwan*

DATA ENGINEER

*Aug. 2017- Oct. 2017*

- Analyzed data and built a 2-RNN model and a char-based Sent2Vec model to predict the best answer according to the Chinese dialogue context.

## Selected Term Projects

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### Twitter Spam Detection

*Jan. 2017 - Jul. 2017*

- Used Keras to build a model to detect Twitter spamming and achieved 90 % accuracy on the dataset .

### Latent semantic model with convolution-pooling structure for information retrieval

*Jan. 2016 - Jul. 2016*

- Researched on a Deep NN model for projecting documents to latent semantic space for information retrieval. Be selected as one of the best-performing student in digital speech processing class. .

### Smart Bike Lock

*Jan. 2015 - Jul. 2015*

- Assembled and installed a gadget with Raspberry Pi on a bike as prototype of our Smart Lock. Implemented an Android App to control the Smart Lock remotely, and enabled the Smart Lock to record the location where we parked the bike .

## LeaderShip

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### Co-organizer of TAIDA Dance Competition

*Jan. 2016 - Apr. 2016*

- Sourced sponsorship from enterprises and executed field control for TAIDA Dance Competition, one of the biggest dance competitions in Taiwan with more than 1500 audience.

### Coordinator of the student Autumn Ball

*Sep. 2015 - Dec. 2015*

- Lead 15 students from 8 different departments and received more than 500 participants.

### Co-founder of fund-raising for Nepal earthquake in CSIE, NTU

*Apr. 2015 - May 2015*

- Initiated an event for fund-raising and accumulated 400 US dollars in CSIE .

## Technical Skills

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**Prgramming Languages** Python, C, MATLAB

**Toolkits** TensorFlow, Keras, Pandas, Scikit-learn

**Languages** Mandarin(native), English(Proficient), French(B2)