# Sz-Rung Shiang

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## Education

**Carnegie Mellon University, School of Computer Science, Language Technologies Institute**  **Pittsburgh, PA**
*Master of Language Technologies, Advisor: Jean Oh and Anatole Gershman*  08/2015 – 08/2017(expected)
GPA 4.1/4.3 (1$^{st}$ out of 35 students)

**International Exchange Student, Tokyo Institute of Technology**  **Tokyo, Japan**
*Precision and Intelligence Laboratory, Advisor: Manabu OKUMURA*  10/2014 – 03/2015
- Tokyo Institute of Technology Scholarship

**Graduate Institute of Electrical Engineering, National Taiwan University**  **Taipei, Taiwan**
*Master of Science, Speech Processing Laboratory, Advisor: Lin-Shan Lee*  09/2012 – 07/2014
GPA 4.05/4.3
- National Taiwan University Advanced Speech Technologies Scholarship
- The graduation thesis received best thesis awards from National Taiwan University

**Department of Electrical Engineering, National Taiwan University**  **Taipei, Taiwan**
*Bachelor of Science, Major: Electrical Engineering*  09/2008 - 06/2012
GPA 4.18/4.3 (senior), 3.9/4.3 (overall)
- National Taiwan University Presidential Award, top 5% of students in the department NTUEE. (2012, Spring)

## Experiences

**Research Assistant**, *Carnegie Mellon University, School of Computer Science*  2015/09 - now
- Improve object recognition accuracy leveraging information from human-robot interaction from 63% to 72%.

**Research Assistant**, *Academia Sinica, Taiwan*  04/2015 – 07/2015
- Semantic role labeling using structural labeling to jointly consider all the augments in one sentence.

**Software Engineer Intern**, *Yahoo!*  07/2014 – 08/2014
- Build Knowledge Graph Recommendation System for Yahoo Search.
- Increase coverage of Yahoo knowledge graph from 14% to 25%
- Technical Award of Yahoo! Interns (1 out of 11 groups)

**Research Assistant**, Speech Processing Laboratory, National Taiwan University  09/2012 – 06/2014
- Spoken document summarization *(1 conference papers and 1 journal paper)*
  - Utilizing lecture slides as auxiliary information and applying graph-based re-ranking to extract lecture summary.
  - Structural prediction to jointly consider both global information and local information in lecture.
- Spoken Question Answering and Query Analysis (1 conference paper)
  - Spoken query analysis and key-phrase extraction to enhance the robustness of spoken question answering.

**Teaching Assistant**, National Taiwan University  02/2013 – 06/2014
- Introduction to Digital Speech Processing
- Special Project (Undergraduate Independent Research)
  - Mentor 8 groups of under-graduate students to do the independent research related to speech technology.

## Selected Projects

**Attention-based Neural Muiltimodal Machine Translation**  2016/05
- Machine translation of image captions from German to English using deep learning and attention model.
- The results are in paper accepted by WMT 2016.

**Multimodal Video Summarization**  2016/05
- Video summarization with heterogeneous information using Multi-layer Random Walk.

**Personal Roles Prediction using Chronological Information in Dialogs**  2015/12
- Using LSTM for sequential labeling to predict roles of participants in dialogs and increasing accuracy from 74% to 78%.

**The ICML 2013 Whale Challenge on Kaggle**  2013/06
- Implementing template matching and gradient boost classifier to detect the whale sounds.
- The AUC achieves 99% and we got 4$^{th}$ place in the online competition.

**Travel Blogs Retrieval System**  2013/06
- Travel blogs retrieval system using both texts and photos information.

**In-course Machine Learning Classification Competition**  2013/01
- Classification with the assigned features from KDD 2012 with missing data.
- Championship of the course project competition in this class (1$^{st}$/60+ teams).

**Lab of Networking and Multimedia**  2012/06
- 2 Android games using TCP/IP connection, augmented reality powered by Qualcomm and image processing.

## Skills

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|---|---|
| **Language** | **Chinese, English, Japanese** |
| **Programming** | **Python, Matlab, C++, JAVA, Android, QT, HADOOP, PIG** |