

## **Intern for Speech and Multimodal Intelligent Information Processing (SMIIP) Lab**

### **Duke Kunshan University**

#### **Job Description**

##### **Summer Internship Position Overview:**

The Data Science Research Center (DSRC) at Duke Kunshan University (DKU) is seeking applicants with expertise in speech processing, to engage in research collaboration between Duke Kunshan University and major industrial companies.

DKU is a partnership of Duke University, Wuhan University and the Municipality of Kunshan, China. The campus is located 37 miles west of Shanghai in Kunshan, which is connected to Shanghai via a 20-minute high-speed train. DKU currently offers graduate and undergraduate programs. For more info, visit <http://www.dukekunshan.edu.cn>.

This internship will perform research and development works on research projects supervised by Dr. Ming Li. (ming.li369@duke.edu) The expected outcome of this internship is top conference papers.

##### **Essential Duties:**

- Perform research and development works on research projects in Speech and Multimodal Intelligent Information Processing (SMIIP) Lab.

##### **Possible topics (but not limited to):**

- Supervised speaker clustering, audio-visual speaker diarization, speaker recognition system adapted anti-spoofing, spoken dialect recognition, efficient speaker verification system implementation, data augmentation for paralinguistic speech attribute recognitions, domain adaptation and adversarial regularization for speaker verification, alcohol detection from speech signals, speech processing for biomedical applications, microphone based speech enhancement, etc.
- Multi-view RGBD camera network based human behavior signal processing, directed speech and gesture recognition, speech analysis for autism children, assistive autism diagnose, etc.

##### **Required Qualifications:**

- Undergraduate/Graduate student in Computer Science, Electrical Engineering, or related major.
- Solid experience with speech processing or natural language processing or computer vision or machine learning. Experience with speech processing is a big plus.

- Strong software engineering skills in one or more of the following: C++, Python, and Java.
- Hands-on experience with a Deep Learning framework, such as Tensorflow, PyTorch, Caffe, etc.
- Experience with scripting languages such as Python, Perl or shell scripts.
- First author conference paper or journal paper on related fields is a big plus.

**Application Process:**

Please submit your cover letter and resume to [Dkurecruitment-Intern@dukekunshan.edu.cn](mailto:Dkurecruitment-Intern@dukekunshan.edu.cn).