Educational Experience (your undergrad/grad institution)

M.Sc. / Beijing University of Technology / Software Engineer / Grade 86/100

B.Eng. / Southwest Minzu University / Computer Science / GPA 3.66/4.0

Link to your CV

https://xqfeng-josie.github.io/resume/xiaoqin\_cv.pdf

Link to your personal website

https://xqfeng-josie.github.io/

Publications (if any)

Chi W, **Feng X**(\*euqal contribution), Chen Y, et al. Stress Prediction Based on Multi-Granularity Linguistic Knowledge. IEEE International Conference on Acoustics, Speech and Signal Processing International Conference on Pattern Recognition and Machine Learning, 2023(ICASSP’23, under review)

Zhang J, **Feng X**, Chen Y, et al. Prosody Prediction With Discriminative Representation Method. International Conference on Pattern Recognition and Machine Learning, 2022(PRML’22)

Wang Z, **Feng X**, Tang J, et al. Deep Knowledge Tracing with Side Information. International conference on artificial intelligence in education.Springer, Cham, 2019(AIED’19).   
**Feng X**, Xie R, Sheng J, et al. Population statistics algorithm based on MobileNet. Journal of Physics: Conference Series. IOP Publishing, 2019(ICSP’19)

Rong Xie, **Feng X** A method of quick edge detection based on Zynq. International Conference on Cloud Computing and Internet of Things, 2018(CCIOT’18)  
Sheng J, **Feng X** Research on the Internet of Things Platform for Smart and Environmental Protection. International Conference on Cloud Computing and Intelligence Systems, 2018(CCIS’18)

and several patents about NLP (>5).

Link to a writing sample (a paper, course project, or research statement

reseatch statement: https://xqfeng-josie.github.io/resume/PS/xiaoqin-ps.pdf

ICASSP’23 Demo, <https://xqfeng-josie.github.io/stress/>

AIED’19, <https://arxiv.org/pdf/1909.00372.pdf>

ICSP’19, <https://iopscience.iop.org/article/10.1088/1742-6596/1237/2/022045/pdf>

Related course grade (if you've taken any course related to AI/ML/NLP)

I have learned related(AI/ML/NLP) courses or knowledge from open-source websites(Coursera, Blogs, Github, PaperWeekly) or Universities(Stanford, CMU, and Taiwan University, etc.) Moreover, I learned mathematics, statistic, and programming courses for my Bachelor's and Master's degree.

What is your research interest?

My research interests lies in natural language processing (NLP), especially in natural language understanding(NLU), information extraction(IE), information representation(IR), and their connection to our real world. The texts contain rich implicit information and potential bias that is critical to help us understand our society, such as fighting against toxic online comments or gender bias. I hope to mitigate harmful effects in text, and there are three major guided research questions align my research interests: (1) **NLU:** How can we better understand the impliction and connection of text knowledge? (2) **IE & IR:** How can we efficiently explore the text information and represent it? (3) **Real-World QA:** How can we collaborate our models with humans or society system robustly and equivalently?

Are you interested in any of our previous papers?  Which ones and why?

I have known you from Professor Jieyu Zhao, and I studied both of your collaborative public results about model robustness and bias measure (gender is most), which is appealing to me. Here are two papers that I read it carefully, I just could give some abstract from my notes, I hope further discussion should be continued with you.

[1] Investigating Ensemble Methods for Model Robustness Improvement of Text Classifiers EMNLP2022

The first paper analyzed the bias feature in the different tasks and verified various bias model selections, demonstrating that bias plays a critical role in model robustness.

[2] Gender Bias in Multilingual Embeddings and Cross-Lingual Transfer ACL2020

The second one was selected by my interest, which focused on gender bias in cross-lingual and transfer-earning. This paper did rigorous and rich experiments. Even though contextual embedding (like pre-trained) could improve performance, bias(intrinsic and extrinsic) still exists in various languages.

Moreover, I recognized that gender bias was studied in your lab precisely, which is significantly meaningful for our society. I hope to explore more exciting ideas in this area(robustness and bias measure).

From what you have heard of, what aspects of the UCLA-NLP lab match you the most? What aspects match you the least?

The UCLA-NLP attracts me for several reasons, and I follow it through Twitter and the official website. Firstly, your parts of research interests align with mine, as I studied some public results from your lab, which highlight your broad research on robustness, bias, and cross-lingual language models. Precisely, I have read papers about bias measures and mitigation, which is appealing to me, and I desire to make fulfillment in these areas. Secondly, UCLA-NLP has many salient researchers, and I want to collaborate with them and contribute to open-source communities. Finally, I love California, where I hope to enjoy my life and research journey. On the other hand, I did not know the detail of improper things since I had explored enough wonderful reasons for my application.

If your were to use <10 sentences (<150 words) to support your case, what would you say?

I am a Ph.D. candidate with motivation and enthusiasm, based on several reasons: (1) This decision began one year ago and was a solemn, well-prepared and promised decision . (2) I came across several excellent researchers and Ph.D. students, and I wish to collaborate heavily with salient researchers and communities. (3) I have related research in knowledge, linguistic, semantic, and intrinsic information extraction of NLP. Moreover, I am interested in your research field, and I hope to collaborate with AI models in the real world robustly and equivalently. (4) I build a solid foundation for my future study since I have accumulated experiences from my school, internship, and formal work. (5) Getting results inspires and motivates me to seek the next career stage and develop research impact in NLP.

Dear Professor Kaiwei Chang,

My name is **Xiaoqin Feng**, a Senior Speech Algorithm Engineer at Mobvoi AI Lab. I am applying for a 2023Fall Ph.D. with motivation and passion, and I am very interested in your research areas (NLP, robust learning (bias investigation and reduction) and cross-lingual transfer, etc.) and I hope to have the opportunity to join your team. **Importantly, I have listed you as my first choice in my 2023Fall application for the Computer Science program**, I would greatly appreciate it if you could provide me with any feedback regarding my application.

Actually, I have already submitted the **opening form** on your website, so you may already have some information about me. I would like share my website link to provide more updated and vivid references.

github: <https://xqfeng-josie.github.io/>

research statement: <https://xqfeng-josie.github.io/resume/PS/xiaoqin-ps-general.pdf>

CV: <https://xqfeng-josie.github.io/resume/xiaoqin_cv.pdf>.

If you are interested in the proposed study and want to know more about me, I am ready to communicate further with you via email or video call.

I realize how busy you must be, so I highly appreciate any time you can reply to me. Thank you very much.

Sincerely,

Xiaoqin Feng