

# ZHENYI SHEN

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## EDUCATION

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- King's College London** **London, UK**  
**Ph.D. of Computer Science Research, Supervisor: Prof. Yulan He** **2024.10–Present**  
• Research Interests: Natural Language processing, LLM reasoning, LLM efficiency, Multimodal Learning
- Imperial College London** **London, UK**  
**Master of Engineering in Electrical and Electronic** **10.2016–7.2020**  
• Achieved First Class Honour, ranked the top 20% overall (Dean's List 2016).

## PUBLICATIONS

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- **Zhenyi Shen**, Hanqi Yan, Linhai Zhang, Zhanghao Hu, Yali Du, Yulan He. "CODI: Compressing Chain-of-Thought into Continuous Space via Self-Distillation." Submitted to ACL 2025.
  - Zhanghao Hu, Hanqi Yan, Qingling Zhu, **Zhenyi Shen**, Yulan He, Lin Gui. "Beyond Prompting: An Efficient Embedding Framework for Open-Domain Question Answering." Submitted to ACL 2025.

## WORK EXPERIENCES

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- iFLYTEK Co. Ltd.** **12.2021–8.2024**  
*Speech Synthesis Researcher* *Shanghai, China*  
Developed high-quality speech synthesis models for low-resource Chinese dialects (e.g., Taiwanese Mandarin, Suzhou, Shanghai, and Southern Min), achieving MOS >4.0, and conducted in-depth research on a text-analysis module to enhance rhythm, intonation, and overall controllability in dialectal TTS systems.
- Zhuofan Information Technology Co. Ltd.** **8.2020–12.2021**  
*Computer Vision Engineer* *Shanghai, China*  
Developed and deployed computer vision solutions, including facial recognition, object detection, and classification, to enhance E-Government IT systems. Automated key administrative processes such as surveillance, customer registration, and license issuance, improving efficiency and reducing manual workload.
- MediaTek Inc.** **4.2019–10.2019**  
*Verification Engineer Intern, Supervisor: Dr. Dimitris Nalbantis* *Kent, UK*  
Completed the functional verification of MediaTek's next-gen commercial 5G cellular RFIC via unit testing and integration testing of all simulated modules.

## RESEARCH EXPERIENCES

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- Temporally Coded Spiking Neural Networks** **10.2019–6.2020**  
*Imperial College London, Supervisors: Professor Pier Luigi Dragotti and Dr. Vincent C.H. Leung* *London, UK*  
Conducted research on Spiking Neural Networks (SNNs). Designed a hybrid SNN architecture that seamlessly integrates temporally-coded and rate-coded modules via a converter, harnessing the advantages of both paradigms to enhance accuracy and efficiency on real-world neuromorphic datasets (N-MNIST, DVS-128).
- Undergraduate Research Opportunity** **6.2018–9.2018**  
*Imperial College London, Supervisors: Professor George A. Constantinides and Dr. James J. Davis* *London, UK*  
Engineered an FPGA-based device checker, capable of determining the failure frequency of on-chip device, testing up to an upper limit of 800MHz with negligible error margins.

## SKILLS

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- **Programming:** Proficient in Python (PyTorch, NumPy, HuggingFace Transformers), Bash, LATEX, Git
  - **Languages:** Fluent in English (IELTS: 7.5), and native in Mandarin.