Jaehyeon Kim

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PUBLICATIONS

[1] **J. Kim**, S. Kim, J. Kong, and S. Yoon, "Glow-TTS: A Generative Flow for Text-to-Speech via Monotonic Alignment Search", *NeurIPS*, 2020, **Oral Presentation**.

[2] J. Kong, **J. Kim**, and J. Bae, "HiFi-GAN: Generative Adversarial Networks for Efficient and High Fidelity Speech Synthesis", *NeurIPS*, 2020.

[3] S. Kim, S.-G. Lee, J. Song, **J. Kim**, and S. Yoon, "FloWaveNet: A Generative Flow for Raw Audio", in *ICML*, 2019.

EDUCATION

Seoul National University   Seoul, South Korea
B.S. in Electrical and Computer Engineering   Mar 2012 –Feb 2018
2-year absence to fulfill military duty (August 2014 –August 2016)

WORK EXPERIENCE

Kakao Enterprise   Seongnam-si, South korea
Research Engineer   Dec 2019 –Present

  – Explored parallel end-to-end text-to-speech models

Kakao   Seongnam-si, South korea
Research Engineer   Dec 2017 –Dec 2019

  – Developed neural sentence boundary and punctuation predictor for a transcription system
  – Explored parallel speech synthesis models
  – Explored to improve neural machine translation models

Kakao   Seongnam-si, South korea
Intern   Sep 2017 –Dec 2017

Republic of Korea Air Force   Gyelyongdae, South korea
Developed mobile applications and web services   August 2014 –August 2016

EXTRACURRICULAR ACTIVITIES

- **Machine Learning Camp Jeju**   July 2017
  Inspected the effect of label propagation in neural machine translation

SCHOLARSHIPS AND AWARDS

- The National Scholarship for Science and Engineering, Korea Student Aid Foundation   2012–2017

Projects

Curated list of projects on github

- **Glow-TTS** 2020
  Released the implementation of Glow-TTS (**Kim** et al. 2020)
- **MelGAN-Pytorch** 2019
  Implemented MelGAN (Kumar et al. 2019)
- **WaveGlow-VQVAE** 2019
  Implemented tensorflow version of WaveGlow (Prenger et al. 2019)
  - Added support for vector-quantization from VQ-VAE (Oord et al. 2017)
- **Tensor2Tensor** (Forked for pull request) 2018
  Added Transformer's encoder-decoder cache
  - The pull request was merged to the master branch of Tensor2Tensor library