



Ha Junsoo (河俊秀)

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## Personal Details

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## Interests

Deep Generative Models  
Unsupervised Representation Learning  
Scalable Software Architectures  
Cute CLI Tools

## Education

- Hanyang University** (Seoul)
- B.E. in Software, Mar 2013 - Apr 2020 (expected)
  - B.S. in Mathematics, Aug 2014 - Apr 2020 (expected)

## Publications

A Neural Dichilet Process Mixture Model for Task-Free Continual Learning  
Soochan Lee, **Junsoo Ha**, Dongsu Zhang, Gunhee Kim  
*International Conference on Learning Representations (ICLR)*, 2020.

Harmonizing Maximum Likelihood with GANs for Multimodal Conditional Generation  
Soochan Lee, **Junsoo Ha**, Gunhee Kim  
*International Conference on Learning Representations (ICLR)*, 2019.

## Research Experience

**SNU Vision & Learning Lab** Seoul, Korea. Dec 2017 - Now  
Undergraduate Research Intern

## Work Experience

**LG Electronics Inc.** Seoul, Korea. Jul 2014 - Aug 2014  
Software Dvelopment Intern

**Nexol System Inc.** Seoul, Korea. Jan 2015 - Mar 2015  
Software Development Intern

**Geopia** Seoul, Korea. Apr 2015 - Feb 2017 (Substitute of Mandatory Military Service)  
Full-Stack Software Developer

**Buzzni** Seoul, Korea. Mar 2017 - July 2017  
Backend Software Engineer

## Honors & Awards

Silver Prize *25th Samsung Human-Tech Paper Award* 2019  
Distinguished Service Award *Hanyang University*, 2019

## Skills

- Machine Learning:**
- PyTorch, TensorFlow, Keras
  - NumPy, SciPy, Scikit-Learn
- Backend | Python:**
- Django, Flask, SQLAlchemy, Celery
  - asyncio, Crossbar, Autobahn,
- Frontend | JavaScript:**
- Backbone, React, Redux, Electron, Autobahn
  - ES6/7, Webpack, Immutable
- Database:**
- MySQL, PostgreSQL, SQLite
  - Redis, RabbitMQ
- DevOps:**
- Bash, Git, GNU Make, Docker

- [Travis CI](#), [Coveralls](#), [Fabric](#), [AWS](#), [Nginx](#)

## Paper Implementations

[pytorch-deep-generative-replay](#): Continual Learning with Deep Generative Replay, NIPS 2017 [\[link\]](#)

[pytorch-wgan-gp](#): Improved Training of Wasserstein GANs, arxiv:1704.00028 [\[link\]](#)

[pytorch-splitnet](#): SplitNet: Learning to Semantically Split Deep Networks for Parameter Reduction and Model Parallelization, ICML 2017 [\[link\]](#)

[pytorch-ntm](#): Neural Turing Machines, arxiv:1410.5401 [\[link\]](#)

[pytorch-memn2n](#): End-To-End Memory Networks, NIPS 2015 [\[link\]](#)

[pytorch-ewc](#): Overcoming Catastrophic Forgetting, PNAS 2017 [\[link\]](#)

[pytorch-vae](#): Auto-Encoding Variational Bayes, arxiv:1312.6114 [\[link\]](#)

[pytorch-wrn](#): Wide Residual Networks, BMVC 2016 [\[link\]](#)

[tensorflow-infogan](#): InfoGAN: Interpretable Representation Learning by Information Maximizing Generative Adversarial Nets, NIPS 2016 [\[link\]](#)

[tensorflow-wgan](#): Wasserstein GAN, arxiv:1701.07875 [\[link\]](#)

[tensorflow-dcgan](#): Unsupervised Representation Learning with Deep Convolutional Generative Adversarial Networks, ICLR 2016 [\[link\]](#)

## Open Sources

[django-record](#): Records snapshot of Django model instances on their updates

[backbone.csrf](#): Configure X-CSRFToken header for all Backbone sync requests

[dotfiles](#): UNIX philosophy compliant environment files

[news](#): Asynchronous web subscription engine written in asnycio and aiohttp