



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 Dichlet 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 Development 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 asyncio and aiohttp