



Ha Junsoo (河俊秀)

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

1. 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.
2. 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`