



**Junsoo Ha** (æ<sup>23</sup> äŹŠ ç\$€)

## Personal Details

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## Interests

- Game Theory & Machine Learning
- Training Dynamics of Neural Networks
- Theoretical Understanding of Multi-Agent Learning

## Education

- **Seoul National University** (Seoul)
  - M.S. in Artificial Intelligence, Sep 2020 - Aug 2022 (expected)
- **Hanyang University** (Seoul)
  - B.E. in Software, Mar 2013 - Aug 2020
  - B.S. in Mathematics, Aug 2014 - Aug 2020

## 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. Sep 2020 - Now  
Graduate Research Assistant
- **SNU Vision & Learning Lab** Seoul, Korea. Dec 2017 - Aug 2020  
Undergraduate Research Intern

## Work Experience

- **Buzzni** Seoul, Korea. Mar 2017 - July 2017  
Backend Software Engineer
- **Geopia** Seoul, Korea. Apr 2015 - Feb 2017 (Substitute of Mandatory Military Service)  
Full-Stack Software Developer
- **Nexol System Inc.** Seoul, Korea. Jan 2015 - Mar 2015

Software Development Intern

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

## 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