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Junsoo Ha

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 Dicihlet 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 (Substitue 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 Delveopment 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 asnycio and aiohttp