Marcus Klasson   CV

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Phone: +46 73 - 024 96 59   **Google Scholar Profile**

Education

Ph.D. in Computer Vision and Machine Learning   **February 2017 –**
KTH Royal Institute of Technology, Division of Robotics, Perception, and Learning
Stockholm, Sweden
- **Thesis**: *Fine-Grained and Continual Visual Recognition for Assisting Visually Impaired People*. Dissertation date: November 8, 2022.

M.Sc. in Electrical Engineering   **August 2010 – June 2016**
Lund University, Faculty of Engineering, Sweden
- **Thesis**: *Conjugate-Prior-Regularized Multinomial pLSA for Collaborative Filtering*.

Refereed Publications

[1] Marcus Klasson, Cheng Zhang, and Hedvig Kjellström. Using Variational Multi-view Learning for Classification of Grocery Items. *Patterns 1.8:100143*, 2020.

[2] Marcus Klasson, Cheng Zhang, Hedvig Kjellström. A Hierarchical Grocery Store Image Dataset with Visual and Semantic Labels. *IEEE Winter Conference on Applications of Computer Vision* (WACV), 2019. Dataset link: https://github.com/marcusklasson/GroceryStoreDataset.

[3] Marcus Klasson, Stefan Ingi Adalbjörnsson, Johan Svärd, Søren Vang Andersen. Conjugate-Prior-Regularized Multinomial pLSA for Collaborative Filtering. *25th European Signal Processing Conference* (EUSIPCO), 2017.

Refereed Workshop Papers

[5] Marcus Klasson, Hedvig Kjellström, Cheng Zhang. Learn the Time to Learn: Replay Scheduling for Continual Learning. *ICML Workshop on Theory and Foundation of Continual Learning*, 2021.

[6] Marcus Klasson, Kun Zhang, Bo Christer Bertilson, Cheng Zhang, Hedvig Kjellström. Causality Refined Diagnostic Prediction. *NIPS Workshop on Machine Learning for Health* (ML4H), 2017.

Academic Reviewing

Neurocomputing, IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI), International Conference on Machine Learning (ICML), Conference on Neural Information Processing Systems (NeurIPS).

Academic Supervision

- Martti Yap (M.Sc. Thesis Student, Univrses AB), January – June 2021, Co-supervisor.

Teaching Experience

Teaching Assistant, DD2423 Image Analysis and Computer Vision   **Fall 2017 – 2021**
KTH Royal Institute of Technology

Teaching Assistant, DD2420 Probabilistic Graphical Models   **Spring 2019 – 2022**
KTH Royal Institute of Technology

Teaching Assistant, DD2424 Deep Learning for Data Science   **Spring 2019**
KTH Royal Institute of Technology

Tutorial Assistant, Nordic Probabilistic AI Summer School   **June 2022**
University of Helsinki
- Assisted on Day 2 on Variational Inference and Day 3 on Deep Generative Models.

Tutorial Assistant, Nordic Probabilistic AI Summer School   **June 2021**
Norwegian University of Science and Technology
- Assisted on Day 4 on Implicit Variational Inference.

Computer Skills

- **Programming Languages**: Python, Matlab, C++, Java, R, SQL.

- **Machine Learning Libraries**: PyTorch, Tensorflow, Pyro, Keras.

- **Software**: Git, Docker, Vagrant, VirtualBox, Atlassian Suite.

Work Experience

Disney Research, Pittsburgh (PA), USA   **July 2017 – October 2017**
Research Intern
- Implemented deep neural networks for animation retargeting and transferring facial expressions between animated faces.

Nordea, Copenhagen, Denmark   **September 2016 – January 2017**
Graduate Software Developer, Wholesale Banking and Capital Markets IT
- Monitoring of Docker containers and measuring usage of CPU and memory in the containers.
- Developed a Java application that used the Jira REST API for producing time tracking reports in Excel.

SSAB, Luleå, Sweden   **June 2014 – August 2014**
Laboratory Assistant, Operations Laboratory
- Data collection, analysis and documentation of carbon and sulfur contents in steel production.

SSAB, Luleå, Sweden   **June 2013 – August 2013**
Laboratory Assistant, Carbon and Coke Laboratory
- Data collection, analysis and documentation of carbon contents in coke fuel production.

Languages

Swedish: Native speaker
English: Fluent