

VLADIMIR IASHIN

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I am a Ph. D. student at Tampere University, where I am working on multi-modal deep learning in video understanding. Currently, I am looking for a research internship lasting up to six months in 2021–22 and willing to relocate if necessary.

TECHNICAL STRENGTHS

Python, PyTorch (+DDP), Git, Docker/Singularity, Slurm, AWS & Google Cloud
Transformers, 2D/3D CNN, RNN, GAN, [VQ]VAE, Multi-modal Fusion, Video, Audio, and Language Processing

SELECTED PUBLICATIONS

- [3] V. Iashin & E. Rahtu. Taming Visually Guided Sound Generation. *Preprint*, 2021.
Project page & code: iashin.ai/SpecVQGAN
- [2] V. Iashin & E. Rahtu. A Better Use of Audio-Visual Cues: Dense Video Captioning with Bi-modal Transformer. In *British Machine Vision Conference (BMVC)*, 2020.
Project page, code & presentation: iashin.ai/bmt
- [1] V. Iashin & E. Rahtu. Multi-modal Dense Video Captioning. In *Computer Vision and Pattern Recognition (CVPR) Workshops*, 2020.
Project page, code & presentation: iashin.ai/mdvc

REVIEWER

ICCV (2021), CVPR Workshops (2021), TPAMI (2020)

INDUSTRY EXPERIENCE

Speech Technology Center June – August, 2018
Research Intern, R & D

- Experimented with state-of-the-art CNN architectures for face recognition (500K+ people) in PyTorch
- Improved the performance metric in the matured project by 2%

SELECTED FREE-TIME PROJECTS

Online Object Detector
Full-stack, PyTorch, Python, Flask, Google Cloud/AWS, HTML, CSS, Ajax iashin.ai/detector

- YOLO object detector as a web application. It will tell you what's on an image you uploaded

Video Features
Video & Audio Processing, PyTorch, Python, ffmpeg, OpenCV iashin.ai/video.features

- Provides an easy and flexible API for feature extraction from raw videos allowing multi-GPU acceleration

1st Place in CORSMAL 2020: Multi-modal Fusion and Learning for Robotics
Deep Learning, Audio & Video Processing, Docker, PyTorch github.com/v-iaschin/CORSMAL

- Majorly contributed to 2/3 tasks, validation approach, organization of the code, Docker image, and tech report

EDUCATION

Tampere University 2018 – Present
Doctor of Science, Computing and Electrical Engineering

National Research University – Higher School of Economics 2018
Master of Science (with distinction), Applied Math. and Computer Science *Graduation Rank: Top-2*

National Research University – Higher School of Economics 2016
Bachelor of Science, Economics *Graduation Rank: Top-1*

SUMMER SCHOOLS

[PAISS](#) by Inria & Naver Labs (2021), [ISSS](#) by Queen Mary U. of London (2020), [ICVSS](#) by U. of Catania (2019)