

VLADIMIR IASHIN

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I am a Ph.D. student at Tampere University (Finland), where I am working on multi-modal neural architectures for video understanding. My interests lie in the intersection of computer vision, sound, and natural language processing.

EDUCATION

Tampere University

Doctorate Student, Computing and Electrical Engineering

September, 2018 – Present

Tampere, Finland

- Supervised by Prof. [Esa Rahtu](#). Particularly interested in training deep neural networks in a multi-modal setting

Higher School of Economics

Master of Science, Applied Math. and Computer Science

September, 2016 – June, 2018

Saint Petersburg, Russia

- GPA 9.2/10, top-2. Hosted and led ML Challenges Club. Organized 20+ four-hour meetings on a weekly basis

Higher School of Economics

Bachelor of Science, Economics

September, 2012 – June, 2016

Saint Petersburg, Russia

- Graduation year rating: 1/100+. Favorite subjects: probability & statistics, econometrics, linear algebra, calculus

PUBLICATIONS

- 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: v-iashin.github.io/bmt
- V. Iashin & E. Rahtu. Multi-modal Dense Video Captioning. In *Workshop on Multimodal Learning (CVPR Workshop)*, 2020.
Project page, code & presentation: v-iashin.github.io/mdvc

INDUSTRY EXPERIENCE

Speech Technology Center (aka SpeechPro)

Research Intern, R & D

June – August, 2018

Saint Petersburg, Russia

- SpeechPro is a recognized expert in multi-modal biometrics including face and voice recognition
- 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 %

TECHNICAL STRENGTHS & OTHER SKILLS

- Python (PyTorch, numpy, sklearn, pandas), remote dev, git, shell, R, [Google Cloud](#) & [AWS](#), fluent in English

SUMMER SCHOOLS & INDEPENDENT LEARNING (MOST CHALLENGING COURSES)

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|-------------|---|
| Sept., 2020 | Intelligent Sensing Summer School (our team won CORSMAL), cis.eecs.qmul.ac.uk |
| July, 2019 | International Computer Vision Summer School, iplab.dmi.unict.it |
| May, 2018 | CS231n: Convolutional Neural Networks for Visual Recognition, stanford.edu |
| June, 2017 | Open Machine Learning Course, mlcourse.ai (Top-5 out of 200+ participants) |

SELECTED FREE-TIME PROJECTS

Video Features

PyTorch, Python, Video Processing, ffmpeg

Summer, 2020

github.com/v-iashin/video_features

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

TAU Vehicle Type Recognition Competition (Kaggle InClass)

Deep Learning, Recognition, Supervised, PyTorch, Python

December, 2019

github.com/schatt89/VehicleRecognition

- Our team took 3rd place among teams of SGN-41007 course on Pattern Recognition and Machine Learning

Online Object Detector

Full-stack, PyTorch, Python, Flask, GCP/AWS, HTML, CSS, Ajax

Fall, 2018 – Spring, 2019

v-iashin.github.io/detector

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