

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** September, 2018 – Present
Doctorate Student, Computing and Electrical Engineering Tampere, Finland
 - Supervised by Prof. [Esa Rahtu](#). Particularly interested in training deep neural networks in a multi-modal setting
- Higher School of Economics** September, 2016 – June, 2018
Master of Science, Applied Math. and Computer Science 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** September, 2012 – June, 2016
Bachelor of Science, Economics Saint Petersburg, Russia
 - Graduation year rating: 1/100+. Favorite subjects: probability & statistics, econometrics, linear algebra, calculus

SELECTED 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)** June – August, 2018
Research Intern, R & D Saint Petersburg, Russia
 - 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%
 - SpeechPro is a recognized expert in multi-modal biometrics including face and voice recognition

TECHNICAL STRENGTHS & OTHER SKILLS

- Python, PyTorch, Git, Linux, Docker & Singularity, Google Cloud & AWS, fluent in English

SUMMER SCHOOLS & INDEPENDENT LEARNING (MOST CHALLENGING COURSES)

- Sept., 2020** Intelligent Sensing Sum. School (my team won CORSMAL challenge), 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

- 1st Place in CORSMAL: Multi-modal Fusion and Learning for Robotics** Fall, 2020
Deep Learning, Audio and Video Processing, Docker, PyTorch github.com/v-iashin/CORSMAL
 - Majorly contributed to 2/3 tasks, validation approach, organization of the code, Docker image, & tech report
- Video Features** Summer, 2020 – Present
PyTorch, Python, Video Processing, ffmpeg github.com/v-iashin/video_features
 - Provides an easy and flexible API for feature extraction from raw videos allowing multi-GPU acceleration
- Online Object Detector** Fall, 2018 – Spring, 2019
Full-stack, PyTorch, Python, Flask, GCP/AWS, HTML, CSS, Ajax v-iashin.github.io/detector
 - YOLO object detector as a web application. It will tell you what's on an image you uploaded