

## 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.

### EDUCATION

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#### Tampere University

2018 – Present

*Doctor of Science, Computing and Electrical Engineering*

#### Higher School of Economics

*Master of Science (with distinction), Applied Math. and Computer Science*

*Graduation Rank: Top-2*

#### Higher School of Economics

*Bachelor of Science, Economics*

*Graduation Rank: Top-1*

### SELECTED PUBLICATIONS

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- V. Iashin & E. Rahtu. Taming Visually Guided Sound Generation. *Preprint*, 2021.  
Project page & code: [iashin.ai/SpecVQGAN](https://iashin.ai/SpecVQGAN)
- 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](https://iashin.ai/bmt)
- 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](https://iashin.ai/mdvc)

### INDUSTRY EXPERIENCE

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#### 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%

### TECHNICAL STRENGTHS

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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 FREE-TIME PROJECTS

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#### 1<sup>st</sup> Place in CORSMAL 2020: Multi-modal Fusion and Learning for Robotics

*Deep Learning, Audio and Video Processing, Docker, PyTorch*

[github.com/v-iashin/CORSMAL](https://github.com/v-iashin/CORSMAL)

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

#### Video Features

*Video Processing, PyTorch, Python, ffmpeg*

[github.com/v-iashin/video\\_features](https://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

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

[v-iashin.github.io/detector](https://v-iashin.github.io/detector)

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

### REVIEWER

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

### SUMMER SCHOOLS

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