

## VLADIMIR IASHIN

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A deep learning researcher and PhD candidate who specializes in designing neural nets for video content understanding. I have several years' experience in working with large video datasets and multiple modalities *e. g.* audio, visual, and text.

### TECHNICAL STRENGTHS

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

### EDUCATION

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<b>Tampere University</b> <i>D.Sc. (Ph. D.) in Computing and Electrical Engineering</i>	2023
<b>National Research University Higher School of Economics</b> <i>M.Sc. in Applied Mathematics and Computer Science</i>	2018
<i>B.Sc. in Economics (graduation rank: Top-1/100+)</i>	2016

### SELECTED PUBLICATIONS

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- [4] **V. Iashin**, W. Xie, E. Rahtu, A. Zisserman. *Sparse in Space and Time: Audio-visual Synchronisation with Trainable Selectors*.  
Under review, 2022.
- [3] **V. Iashin**, E. Rahtu. *Taming Visually Guided Sound Generation*.  
In *British Machine Vision Conference (BMVC)*, 2021 – **Oral Presentation**.  
Project page & code: [iashin.ai/SpecVQGAN](https://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](https://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](https://iashin.ai/mdvc)

### INDUSTRY EXPERIENCE

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<b>Speech Technology Center</b> <i>Research Intern, R &amp; D</i>	June – August, 2018
<ul style="list-style-type: none"><li>• Experimented with state-of-the-art CNN backbones for reverse image search in PyTorch</li><li>• Improved the performance metric in the matured project by 2%</li></ul>	

### SELECTED FREE-TIME PROJECTS

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<b>Website with an Object Detector</b> <i>Full-stack, PyTorch, Python, Flask, Google Cloud/AWS, HTML, CSS, Ajax</i>	<a href="https://iashin.ai/detector">iashin.ai/detector</a>
<ul style="list-style-type: none"><li>• An object detector as a web application. It will tell you what's on an image you uploaded</li></ul>	
<b>Video Features</b> <i>Video &amp; Audio Processing, PyTorch, Python, ffmpeg, OpenCV</i>	<a href="https://iashin.ai/video_features">iashin.ai/video_features</a>
<ul style="list-style-type: none"><li>• Provides an easy and flexible API for feature extraction from raw videos allowing multi-GPU acceleration</li></ul>	
<b>1<sup>st</sup> Place in CORSMAL 2020: Multi-modal Fusion and Learning for Robotics</b> <i>Deep Learning, Audio &amp; Video Processing, Docker, PyTorch</i>	<a href="https://github.com/v-iashin/CORSMAL">github.com/v-iashin/CORSMAL</a>
<ul style="list-style-type: none"><li>• Majorly contributed to 2/3 tasks, validation approach, organization of the code, Docker image, and tech report</li></ul>	

### REVIEWER

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AAAI (2022), CVPR (2022), 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)