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CONTACT	vpetsiuk@gmail.com	<a href="#">webpage</a>	<a href="#">linkedin</a>	<a href="#">google scholar</a>
INTERESTS	Generative AI, Multimodal Learning, Diffusion Models, LLM, Interpretable ML.			
EDUCATION	<b>Boston University</b> , Ph.D., Computer Science.		Sep 2017 – Aug 2024	
	<ul style="list-style-type: none"> <li>• Concept manipulation in Text-to-Image Diffusion Models.</li> <li>• Feature importance attribution and evaluation for Computer Vision models.</li> <li>• Interpretability in multimodal models for document understanding.</li> </ul>			
	<b>Belarusian State University</b> , M.S./B.S., <i>with distinction</i> .		Sep 2012 – June 2017	
	Computer Science and Applied Math. Research in Semantic Segmentation.			
	<b>Yandex School of Data Analysis</b> , MPS, Computer Science.		Sep 2014 – May 2016	
	Graduate program in Machine Learning and Theoretical Computer Science.			
WORK EXPERIENCE	<b>Samsung Research America</b>			
	Senior Researcher, AI Research.	Mountain View, CA.	Jan 2025 – present	
	<b>Adobe Research</b> . ML Research Intern.	College Park, MD.	Jun 2020 – Aug 2020	
	Incorporated multiple interpretability methods for Multimodal (Vision-Language) Transformers for Document Understanding. Research in positional embeddings for spatial layout modeling.			
	<b>Adobe Research</b> . ML Research Intern.	College Park, MD.	Jun 2019 – Nov 2019	
	Developed a novel interpretability method (saliency attribution) for Object Detectors for natural images and documents. Integrated into the Document Understanding pipeline in production. <i>CVPR publication (oral); U.S. Patent Grant.</i>			
	<b>Eminent Systems</b> , Software Engineer, C++.	Minsk, Belarus.	2015 – 2017	
	Lead the implementation of a library of GPU parallel algorithms for Image Processing in OpenCL.			
SELECTED PUBLICATIONS	<b>Petsiuk, Saenko</b> . Concept Arithmetics for Circumventing Concept Inhibition in Diffusion Models. ECCV 2024, <b>oral, best paper honorable mention</b> .			
<a href="#">SEE ALL</a>	<b>Petsiuk et al</b> . Human Evaluation of Text-to-Image Models on a Multi-Task Benchmark. NeurIPS HEGM Workshop 2022. <b>oral</b> .			
	<b>Petsiuk, Jain, Manjunatha, Morariu, Mehra, Ordonez, Saenko</b> . Black-box Explanation of Object Detectors via Saliency Maps. CVPR 2021, <b>oral</b> .			
	Bargal, Zunino, <b>Petsiuk</b> , Zhang, Saenko, Murino, Sclaroff. Guided Zoom: Questioning Network Evidence for Fine-grained Classification. BMVC 2019, <b>oral</b> .			
	<b>Petsiuk, Das, Saenko</b> . RISE: Randomized Input Sampling for Explanation of black-box models. BMVC 2018, <b>oral</b> .			
PATENTS	R. B. Jain, V. I. Morariu, V. Petsiuk, V. Manjunatha, A. Mehra, V. I. O. Roman. “Explanatory visualizations for object detection”. U.S. Patent Grant 11227159.			
PROFESSIONAL ACTIVITIES	Reviewer: CVPR, NeurIPS, AAAI, WACV, ACCV; IJCV. Outstanding reviewer (CVPR 2021). Teaching Fellow for CS440 Intro to AI (2023 S,F; 2024 S), CS523 Deep Learning (2022 F). Guest Lecture on Interpretable ML for CS585 Computer Vision (2022). Co-organizer, <a href="#">Interpretable ML Practicum Class</a> , MIT (2020). Student host, AI Seminars at BU (2021-2022). Adobe Research Fellowship (2020). Dean’s Fellowship at Boston University (2017). Technical advisor, <a href="#">AI4ALL</a> (2019). Demo at ECCV (2018). Best student research award, BSU (2017). Bronze, Belarus Math Olympiad (2011, 2012).			