

Vasili Ramanishka

Curriculum Vitae

111 Cummington Mall
office 200C
Boston, MA 02215
✉ vram@bu.edu
📁 cs-people.bu.edu/vram

Research interests

Machine Learning, Computer Vision, Natural Language Processing.

Education

- 2016–present **PhD student, Computer Science, Boston University.**
Advisor: Prof. Kate Saenko
Research Group: Image and Video Computing
- 2015–2016 **PhD student, Computer Science, University of Massachusetts Lowell.**
Computer Vision Lab
- 2006–2011 **BS and MS, Applied Mathematics, Institute of Cryptography, Telecommunications and Computer Science, Moscow.**
Specialization: Applied Cryptography

Experience

- Summer 2017 **Research Intern, HONDA RESEARCH INSTITUTE, Mountain View.**
Design and implementation of a segmentation/clustering algorithm for multimodal/multisensory data; event detection for autonomous vehicles.
- 2016–present **Research Assistant, BOSTON UNIVERSITY.**
Top-down visual saliency and models of neural attention; algorithms for event detection and dense video annotation
Publications:
 - Vasili Ramanishka, Abir Das, Jianming Zhang, Kate Saenko; **Top-down Visual Saliency Guided by Captions**; CVPR 2017
- 2015–2016 **Research Assistant, UNIVERSITY OF MASSACHUSETTS LOWELL.**
Description of videos and images using natural language, models of attention in deep learning, semantic textual similarity, recurrent neural networks
Publications:
 - Vasili Ramanishka, Abir Das, Kate Saenko, Marcus Rohrbach, Subhashini Venugopalan, Lisa Anne Hendricks, Dong Huk Park; **Multimodal Video Description**; ACM Multimedia 2016 (ranked 3rd out of 21 teams in Video Description track of the Grand Challenge)
 - Peter Potash, William Boag, Alexey Romanov, Vasili Ramanishka, Anna Rumshisky; **SimiHawk at SemEval-2016 Task 1: A Deep Ensemble System for Semantic Textual Similarity**; 10th International Workshop on Semantic Evaluation 2016, ACL (ranked 6th out of 40 teams)
 - Huijuan Xu, Subhashini Venugopalan, Vasili Ramanishka, Marcus Rohrbach, Kate Saenko; **A Multi-scale Multiple Instance Video Description Network**; ICCV 2015 Workshop on Closing the Loop between Vision and Language, 2015
- 2012–2014 **Software Engineer, DENIVIP GROUP, Moscow.**
Lead Developer of the Load Balancing System for video content delivery, design and implementation of fault-tolerant services in high-loaded systems, implementation of scalable transcoding/editing system for audiovisual content
Selected projects: now.ru, ntvplus.tv, 2ggr.com, routes.tips
- 2011–2012 **Research Associate, ARMED FORCES OF THE REPUBLIC OF BELARUS, Minsk.**
Parallel Computing
- 2011–2012 **Junior System Administrator, DENIVIP MEDIA, Moscow.**
Configuring and managing large groups of Linux servers for video content delivery networks

Professional Activities

- 2017 Poster at Amazon Graduate Research Symposium
- 2016 Invited Speaker at *Skoltech, Moscow*, Colloquium on Computer Vision
- 2016 Spotlight talk at ACM Multimedia Grand Challenge
- 2016 Mentoring undergraduate interns at UMass Lowell
- 2016-2017 Reviewer of IEEE Transactions on Image Processing, Conference on Computer Vision and Pattern Recognition, Conference on Neural Information Processing Systems, International Conference on Multimedia and Expo

Relevant Coursework

Computer Vision, Machine Learning, Natural Language Processing, Computer Graphics, Operating Systems, Algorithms, Information Theory, Optimization Methods

Technical Skills

- Programming Python, C, C++, Javascript
- Tools TensorFlow, Caffe, sklearn, OpenCV, NLTK