Maksim Bolonkin

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EDUCATION

Dartmouth College　　　　　　　　　　　　September, 2015 — September, 2021
Ph.D. in Computer Science
- Thesis: "Exploiting Group Structures to Infer Social Interactions From Videos"
- Advisor: Prof. V.S. Subrahmanian

Saint-Petersburg State University, Russia　　　　September, 2013 — June, 2015
M.Sc. in Computer Science, Diploma with distinction
- Thesis: "Application of image registration to superresolution problem"
- Advisor: Dr. Alexander Vakhitov

Moscow State University, Russia　　　　　　　September, 2006 — June, 2010
B.Sc. in Applied Mathematics and Computer Science, Diploma with distinction

EXPERIENCE

PhD Engineering Internship at Facebook　　　　　　　June—August, 2019
Instagram Well-Being Research Team
- Built pipelines for data collection and preprocessing.
- Developed a model for analyzing end-user video content.

Research Internship　　　　　　　　　　　　　　June—August, 2018
University of Maryland
- Researched social group dynamics analysis (deception and dominance) from multi-person videos.

Visiting Lecturer　　　　　　　　　　　　　　　2018 — 2020
Lomonosov Moscow State University, Tashkent branch, Uzbekistan
- Designed and taught a course on "Optimization and numerical tools" for Master students.

Software Engineer and Junior Researcher　　　　　　2008 — 2012
"Akademdevice" scientific production association, Tashkent, Uzbekistan
- Software engineer integrating sensors for scientific equipment development.

PUBLICATIONS

- *Chongyang Bai, Maksim Bolonkin, Viney Regunath, VS Subrahmanian*, **Predicting Dyadic Impressions in Group Interaction Videos**, submitted to ACM Transactions on Multimedia Computing, Communications, and Applications

- *Chongyang Bai, Maksim Bolonkin, Judee Burgoon, Dongkai Chen, Norah Dunbar, Viney Regunath, VS Subrahmanian*, **Predicting Relative Nervousness from Group Interaction Videos**, submitted to IEEE International Conference on Automatic Face and Gesture Recognition 2021

- *Lezi Wang, Chongyang Bai, Maksim Bolonkin, Judee K Burgoon, Norah E Dunbar, VS Subrahmanian, Dimitris Metaxas*, **Attention-based facial behavior analytics in social communication,** chapter in Detecting Trust and Deception in Group Interaction, Springer 2021

- *Chongyang Bai, Maksim Bolonkin, Srijan Kumar, Jure Leskovec, Judee Burgoon, Norah Dunbar, and V. S. Subrahmanian*, **Predicting dominance in multi-person videos.** IJCAI'19 The 28th International Joint Conference on Artificial Intelligence.

- *Chongyang Bai, Maksim Bolonkin, Judee Burgoon, Chao Chen, Norah Dunbar, Bharat Singh, V. S. Subrahmanian, Zhe Wu*, **Automatic Long-Term Deception Detection in Group Interaction Videos.** ICME'19 The 2019 IEEE Conference on Multimedia Expo (main track and demo track)

- *Lauren Tilton, Taylor Arnold, Thomas Smits, Melvin Wevers, Mark Williams, Lorenzo Torresani, Maksim Bolonkin, John Bell, Dimitrios Latsis*, **Computer Vision in DH** (Panel at Digital Humanities 2018 Conference, June 2018, Mexico)

- *Du Tran, Maksim Bolonkin, Manohar Paluri, Lorenzo Torresani*, **VideoMCC: a New Benchmark for Video Comprehension**, 2016 (on arXiv)

Technical Skills

ML/DL Frameworks: PyTorch, Torch7, Caffe, Keras, `scikit-learn`
Data Science Frameworks: Pandas, Hive, SQL
Programming Languages: Python, Matlab, C/C++
Computer Vision Frameworks: OpenCV, `scikit-image`