

# Maksim Bolonkin

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## EDUCATION

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- Dartmouth College** exp. August 2021  
*PhD program in Computer Science*  
• Advisor: Prof. V.S. Subrahmanian
- Saint-Petersburg State University, Russia** 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** June 2010  
*B.Sc. in Applied Mathematics and Computer Science, Diploma with distinction*

## EXPERIENCE

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- 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

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- 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

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**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