




Yelena Kernogitski

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EXPERIENCE

- **Viacom** New York, NY
Associate Data Scientist Nov 2016 - Present
 - Developed and implemented data pipelines to create a functional audience science data platform.
 - Delivered team-specific data solutions across marketing and acquisition teams in response to problems including marketing to specific audiences for Nickelodeon, movie acquisition, and trending themes in film and television.
 - Transformed and mined Nielsen, IMDb, Box Office Mojo, and other data sources to tell compelling data stories through a range of techniques including clustering, matrix factorization, and image processing.
- **Duke University** Durham, NC
Statistician May 2016 - Oct 2016
 - Collaborated with a team of scientists as the lead statistician to find and understand regulators of heart disease, by aggregating and analyzing data from large genetic studies.
 - Used statistical methodology to determine extent of relationships between risk alleles and diseases. Models and methods included but not limited to: mixed models, generalized estimating equations, Kaplan Meier, and Cox frailty models.
- **Duke University** Durham, NC
Graduate Research Assistant Jan 2015 - May 2016
 - Designed models and visuals to find and understand genetic regulators of health, aging, and lifespan.
 - Produced working datasets and data pipelines from raw survey source files available in public domain.

SKILLS

- **Software and Programming Languages:** R, Python (scikit-learn, pandas, numpy, pyspark), Postgresql, SAS, AWS (Image Rekognition, Lex), git, Adobe InDesign, Adobe Photoshop, Microsoft Excel, LaTeX
- **Ecosystems:** AWS (EC2, S3, RDS), Google Cloud Computing (Vision, Video Intelligence)
- **Languages:** English (Native Proficiency), Russian (Working Proficiency)

PUBLICATIONS / PRESENTATIONS

- **Presentation:** Colors of Music. Presentation for a Viacom-NYU Data and Visualizaion Crossover Series. 2017.
- **Article:** Kulminski, A., **Kernogitski, Y.**, Culminskaya, I., Loika, Y., Arbeev, K., Bagley, O., Duan, M., Arbeeva, L., Ukraintseva, D., Stallard, E., Yashin A. Uncoupling associations of risk alleles with age-related endophenotypes and phenotypes. *Aging Cell*. 2016.
- **Article:** He, L., **Kernogitski, Y.**, Culminskaya, I., Loika, Y., Arbeev, K., Loiko, E., Bagley, O., Duan, M., Yashkin, A., Ukraintseva, S., Kovtun, M., Yashin, A., Kulminski, A. Pleiotropic meta-analyses of longitudinal data discover novel variants associated with age-related traits. *Frontier in Genetics*. 2016.
- **Article:** Doherty, A., **Kernogitski, Y.**, A., Kulminski, Magalhes, J. Identification of polymorphisms in cancer patients that differentially affect survival with age. *Aging*. 2018.

EDUCATION

- **Duke University** Durham, NC
Master of Science in Biostatistics Aug 2014 - May 2016
 - **Coursework:** Statistical theory and methodology, applied statistical methods, machine learning theory and applications (supervised and unsupervised), statistical programming, statistical computing with emphasis on optimization, generalized linear models, longitudinal models, survival analysis.
 - **Masters Thesis:** *APOB gene risk polymorphisms association with lipids and myocardial infarction and trait heritability*. Computed and mined through Genome-Wide Association Studies across multiple datasets with thousands of subjects to study the relationship between the APOB gene locus and complex phenotypes.
 - **Awards:** Duke Scholarship Recipient.
- **University of Rochester** Rochester, NY
Bachelor of Science in Cell and Developmental Biology; Bachelor of Arts in Religion Aug 2009 - May 2014
 - **Awards:** Take Five Scholar (tuition-free fifth year scholars program) in Soviet and Post-Soviet Identity; Benjamin A. Gilman International Scholarship Recipient