

KIRILL GRIGOREV / КИРИЛЛ ГРИГОРЬЕВ

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COMPUTATIONAL GENETICS, EPIGENOMICS, TRANSCRIPTOMICS, GENOME ASSEMBLY, GENOMICS ALGORITHMS, DATA SCIENCE



PHD CANDIDATE

Weill Cornell Medicine, New York, NY
Mason Lab, Institute for Computational Biomedicine

M.S. in Biology, University of Puerto Rico

B.S. in Biotechnology, Saint Petersburg Chemical and Pharmaceutical Academy

PRINCIPAL AREAS OF ACADEMIC INTEREST

Genomics algorithms
Translational and personalized genomics
Epigenomics and epitranscriptomics

PRINCIPAL SKILLSET

Genomic data analysis
Algorithm development
Advanced Python, essential R, Perl, and C++

RESEARCH SUMMARY

- 2017 – ... **Weill Cornell Medicine, Institute for Computational Biomedicine, Mason Lab**
Assembly algorithms, nanopore sequencing data algorithms, epigenomics, comparative transcriptomics, phylogenetics algorithms
- 2018 – ... **GeneLab**. Analysis of the effect of microgravity on the animal transcriptome
- 2015 – 2017 **University of Puerto Rico, Caribbean Genome Center**
Methods of genome assembly, conservation genetics, Genome 10K
- 2014 – 2017 **Dobzhansky Center for Genome Bioinformatics**
Methods of genome assembly, GWAS visualization tools, epigenomics of early childhood development
- 2013 – 2014 **iBinom inc.** Medical genome analysis, cloud SaaS

PUBLIC SPEAKING & OTHER ACADEMIC EXPERIENCE

- 2019 *talk* **Comparative circadian transcriptomics: novel and conserved features of the mammalian pineal gland**
OU Genomics Symposium, Oakland University, MI
- 2017 *workshop* **Development of robust bioinformatics pipelines**
Fifth annual Bioinformatics Summer School, Moscow, Russia
- 2017 *talk* **Genomics and conservation of the Hispaniolan Solenodon**
IX Caribbean Biodiversity Congress, Santo Domingo, Dominican Republic
- 2016 *TA* **Bioinformatics pipelines**
Recent Advances in Conservation Genetics, Tihany, Hungary
- 2015 *workshop* **Linux toolset for bioinformatics**
Third annual Bioinformatics Summer School, Moscow, Russia
- 2015 *lectures* **Introduction to genetics**
Biotechnology Stepik.org online course

PUBLICATIONS

1. F Gaiti, R Chaligne, H Gu, RM Brand, S Kothén-Hill, RC Schulman, K Grigorev, D Risso, K Kim, A Pastore, KY Huang, A Alonso, C Sheridan, ND Omans, E Biederstedt, K Clement, L Wang, JA Felsenfeld, EB Bhavsar, MJ Aryee, JN Allan, R Furman, A Gnirke, CJ Wu, A Meissner, DA Landau. **Epigenetic evolution and lineage histories of chronic lymphocytic leukaemia**. *Nature* 569 (7757), 576. doi:[10.1038/s41586-019-1198-z](https://doi.org/10.1038/s41586-019-1198-z)
2. ABR McIntyre, N Alexander, K Grigorev, D Bezdan, H Sichtig, CY Chiu, CE Mason. **Single-molecule sequencing detection of N6-methyladenine in microbial reference materials**. *Nature Communications* 10 (1), 579. doi:[10.1038/s41467-019-08289-9](https://doi.org/10.1038/s41467-019-08289-9)
3. S Kolchanova, S Kliver, A Komissarov, P Dobrynin, G Tamazian, K Grigorev, WW Wolfsberger, AJ Majeske, J Velez-Valentin, R Valentin de la Rosa, JR Paul-Murphy, DSM Guzman, MH Court, JL Rodriguez-Flores, JC Martinez-Cruzado, TK Oleksyk. **Genomes of three closely related Caribbean amazons provide insight for species history and conservation**. *Genes* 10 (1), 54. doi:[10.3390/genes10010054](https://doi.org/10.3390/genes10010054)
4. K Grigorev, S Kliver, P Dobrynin, A Komissarov, W Wolfsberger, K Krashennikova, YM Afanador-Hernandez, AL Brandt, LA Paulino, R Carreras, LE Rodriguez, A Nunez, JR Brandt, F Silva, JD Hernandez-Martich, AJ Majeske, A Antunes, AL Roca, SJ O'Brien, JC Martinez-Cruzado, TK Oleksyk. **Innovative assembly strategy contributes to understanding the evolution and conservation genetics of the endangered *Solenodon paradoxus* from the island of Hispaniola**. *GigaScience* 7 (6), giy025. doi:[10.1093/gigascience/giy025](https://doi.org/10.1093/gigascience/giy025)
5. OY Naumova, M Dozier, PV Dobrynin, K Grigorev, A Wallin, I Jeltova, M Lee, A Raefski, EL Grigorenko. **Developmental dynamics of the epigenome: a longitudinal study of three toddlers**. *Neurotoxicology and teratology* 66, 125-131. doi:[10.1016/j.ntt.2017.12.006](https://doi.org/10.1016/j.ntt.2017.12.006)
6. AL Brandt, K Grigorev, YM Afanador-Hernandez, LA Paulino, WJ Murphy, A Nunez, A Komissarov, JR Brandt, P Dobrynin, JD Hernandez-Martich, R Maria, SJ O'Brien, LE Rodriguez, JC Martinez-Cruzado, TK Oleksyk, AL Roca. **Mitogenomic sequences support a north-south subspecies subdivision within *Solenodon paradoxus***. *Mitochondrial DNA Part A* 28 (5), 662-670. doi:[10.3109/24701394.2016.1167891](https://doi.org/10.3109/24701394.2016.1167891)