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**
Hybrid assembly algorithms, epigenomics, phylogenetics algorithms, comparative transcriptomics, NASA Twins Study

2018 – … **NASA GeneLab** Analysis of spaceflight biological research data

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 *et al*. **Epigenetic evolution and lineage histories of chronic lymphocytic leukaemia**. Nature 569 (7757), 576. doi:10.1038/s41586-019-1198-z
2. ABR McIntyre *et al*. **Single-molecule sequencing detection of N6-methyladenine in microbial reference materials**. Nature Communications 10 (1), 579. doi:10.1038/s41467-019-08289-9
3. S Kolchanova, S Kliver *et al*. **Genomes of three closely related Caribbean amazons provide insight for species history and conservation**. Genes 10 (1), 54. doi:10.3390/genes10010054
4. K Grigorev, S Kliver *et al*. **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
5. OY Naumova *et al*. **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
6. AL Brandt, K Grigorev *et al*. **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