

KIRILL GRIGOREV / КИРИЛЛ ГРИГОРЬЕВ

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GENOME ASSEMBLY, TRANSCRIPTOMICS, EPIGENOMICS, COMPUTATIONAL GENETICS, ALGORITHM DEVELOPMENT, DATA SCIENCE



PHD STUDENT

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
Comparative genomics

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**
Comparative transcriptomics; NASA GeneLab and the NASA Twins Study;
hybrid assembly algorithms development; phylogenetics algorithms development
- 2015 – 2017 University of Puerto Rico, Caribbean Genome Center**
Methods of genome assembly; genome projects under the Genome 10K umbrella
in collaboration with Weill Cornell Medicine and the American Museum of Natural History
- 2014 – 2017 Dobzhansky Center for Genome Bioinformatics**
Epigenomics of early childhood development in collaboration with Yale University;
Visualization of human genome-wide association data;
Genomics of Caribbean parrots in collaboration with the University of Puerto Rico
- 2013 – 2014 iBinom inc.**
Medical genome analysis, cloud SaaS

PUBLIC SPEAKING & OTHER ACADEMIC EXPERIENCE

- AUG 2017** Talk/workshop: **Development of robust bioinformatics pipelines**
Fifth annual Bioinformatics Summer School, Moscow, Russia
- FEB 2017** Talk: **Genomics and conservation of the Hispaniolan Solenodon**
IX Caribbean Biodiversity Congress, Santo Domingo, Dominican Republic
- JUN 2016** TA: **Bioinformatics**
Recent Advances in Conservation Genetics, Tihany, Hungary
- JUL 2015** Talk/workshop: **Linux toolset for bioinformatics**
Third annual Bioinformatics Summer School, Moscow, Russia
- JUL 2015** Lecture block: **Introduction to genetics**
Biotechnology, Stepik.org online course

PUBLICATIONS

Published papers

1. **Grigorev K**, Kliver S, Dobrynin P, Komissarov A, Wolfsberger W, Krasheninnikova K, Afanador-Hernández YM, Brandt AL, Paulino LA, Carreras R, Rodríguez LE, Núñez A, Brandt JR, Silva F, Hernández-Martich JD, Majeske AJ, Antunes A, Roca AL, O'Brien SJ, Martínez-Cruzado JC, Oleksyk TK (2018). **Innovative assembly strategy contributes to the understanding of evolution and conservation genetics of the critically endangered *Solenodon paradoxus* from the island of Hispaniola**. *GigaScience*, 7(6). doi.org/10.1093/gigascience/giy025
2. Naumova OY, Dozier M, Dobrynin PV, **Grigorev K**, Wallin A, Jeltova I, Lee M, Raefski A, Grigorenko EL (2018). **Developmental dynamics of the epigenome: A longitudinal study of three toddlers**. *Neurotoxicology and Teratology*, 66, 125–131. doi.org/10.1016/j.ntt.2017.12.006
3. Brandt AL, **Grigorev K**, Afanador-Hernández YM, Paulino LA, Murphy WJ, Núñez A, Komissarov A, Brandt JR, Dobrynin P, Hernández-Martich JD, Maria R, O'Brien SJ, Rodríguez LE, Martínez-Cruzado JC, Oleksyk TO, Roca AL (2016). **Mitogenomic sequences support a north–south subspecies subdivision within *Solenodon paradoxus***. *Mitochondrial DNA Part A*, 28(5), 662–670. doi.org/10.3109/24701394.2016.1167891

Paper drafts

1. Gaiti F et al. **Epigenetic evolution and lineage histories of chronic lymphocytic leukemia**

Papers in development

1. Mason Lab. **Rhesus pineal gland and retina: conserved and novel features**
2. Mason Lab. Untitled Jamaican parrot genome assembly paper
3. Mason Lab. Untitled astronaut cell-free DNA analysis paper