KIRILL GRIGOREV / КИРИЛЛ ГРИГОРЬЕВ

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BIOINFORMATICS ALGORITHMS, GENOME ASSEMBLY, GENETICS, PARALLEL AND DISTRIBUTED COMPUTING, PYTHON, R, LINUX

PHD PROGRAM

Weill Cornell Graduate School of Medical Sciences, New York City
Physiology, Biophysics and Systems Biology
Start date: August 2017

PRINCIPAL AREAS OF ACADEMIC INTEREST

Genomics algorithms
Genetics of human diseases
Statistical modeling and deep learning

PRINCIPAL SKILLSET

Genomics applications and pipelines
Software design
Advanced Python, essential R, Perl, and C++

RESEARCH AND ACADEMIC EXPERIENCE

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 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 – 2017 **Bioinformatics Summer School**
Co-organizer (2013–2015), speaker (2015–2017)

2013 – 2015 **Bioinformatics Institute, St. Petersburg Academic University of RAS**
Junior curator, teaching assistant

2013 – 2014 **iBinom inc.**
Intern: medical genome analysis, cloud SaaS

GRADUATE STUDIES

PROGRAM START IN AUGUST 2017 **Weill Cornell Graduate School of Medical Sciences**
Physiology, Biophysics and Systems Biology
Expected degree: Ph.D. in Biology

COMPLETED 2017 **University of Puerto Rico, Mayagüez**
Academic focus: bioinformatics
M.S. in Biology

UNDERGRADUATE STUDIES

COMPLETED 2015 **Saint Petersburg State Chemical and Pharmaceutical Academy (SPCPA) ***
Specialist (equal to B.S.) in biotechnology

UNDERGRADUATE COURSES

2013 – 2014 **Bioinformatics Institute, St. Petersburg Academic University of RAS**
Bioinformatics algorithms and applications

2013 **Game|Changers biotechnology track.**
Bioinformatics and biotechnology

WORKSHOPS, CONFERENCES: INTERNATIONAL TRAVEL

FEB 2017 IX Caribbean Biodiversity Congress, Santo Domingo, Dominican Republic
SEP 2016 FWD Summit, San Juan, Puerto Rico, US
JUN 2016 Recent Advances in Conservation Genetics, Balaton Limnological Institute, Hungary
APR 2016 Human Genome Analysis Fundamentals, Weill Cornell Medical College, New York, NY
OCT 2015 The American Society of Human Genetics annual meeting, Baltimore, MD
JUN 2014 Genetics of Complex Human Diseases, Cold Spring Harbor, NY
AUG 2013 Novartis International Biotechnology Leadership Camp, Bazel, Switzerland

PUBLICATIONS

1. **Genomics and conservation of the Hispaniolan Solenodon**, IX Caribbean Biodiversity Congress, Santo Domingo, Dominican Republic, Jan 31 – Feb 3, 2017 (**talk**)
2. **Grigorev K**, Oleksyk TK (2016). **Novel approaches to genome assembly provide insight into the genomics of an endangered Caribbean species.** Poster presentation at the FWD Summit, San Juan, PR, Sep 17, 2016
3. Brandt AL, **Grigorev K**, Afanador-Hernandez YM, Paulino LA, Murphy WJ, Nunez A, Komissarov A, Brandt JR, Dobrynin P, Hernandez-Martich JD, Maria R, O'Brien SJ, Rodriguez LE, Martinez-Cruzado JC, Oleksyk TK, Roca AL (2015). **Mitogenomic sequences support a north–south subspecies subdivision within Solenodon paradoxus.** Mitochondrial DNA Part A, 2016 Apr 20:1-9
DOI 10.3109/24701394.2016.1167891
4. Dobrynin P, **Grigorev K** (2014). **Detection of correlation between socioeconomic status and methylation profile in the human genome**. Oral presentation at the Second Bioinformatics Summer School, Roschino, Russia, July 27 – August 1 (pp. 39–40), ISBN 978-5-4386-0575-1

-. Naumova O, Dozier M, Wallin A, Raefski A, Dobrynin P, **Grigorev K**, Jeltova A, Lee M (2016). **Developmental dynamics of the epigenome of infants based on a longitudinal study of three cases.** Early Human Development. (**in review**)

-. **Grigorev K**, Kliver S, Oleksyk TK et al. Novel genome assembly approach informs of homozygous genomes and contributes to natural history and conservation in the Hispaniolan solenodon (**draft, title subject to change**)

LANGUAGES & CERTIFICATES

LANGUAGES Russian: native
English: fluent, TOEFL score 119/120
Spanish: conversational level
German: intermediate
Latin: written text comprehension only

GRE Verbal: 162/170, Quantitative: 170/170

Notes

* Санкт-Петербургская Химико-Фармацевтическая Академия.
Various translations exist in documents, including "Saint Petersburg Academy of Chemistry and Pharmaceutics," "Saint Petersburg Chemical Pharmaceutical Academy," "Saint Petersburg Academy of Chemistry and Pharmacology."