ANASTASIA LYULINA

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EDUCATION

2020 – present	Stanford University, Stanford, CA, United States Ph.D. Student in Ecology and Evolution
2013 – 2017	Saint Petersburg Polytechnic University, Saint Petersburg, Russia B.Sc. in Physics
2016	Technical University of Munich, Munich, Germany Exchange Student
RESEARCH EXPERIENCE	
2020 – present	Stanford University, Stanford, CA, United States Rotation Student in Dmitri Petrov's lab I am working on inferring mean fitness from lineage tracking experiments in barcoded yeast populations.
2017 – 2020	Institute of Science and Technology, Klosterneuburg, Austria Research Assistant in Fyodor Kondrashov's lab My main project investigated the genetic variation in a nearly extinct bird species. I used mathematical modelling, machine learning, and extensive data analysis.
2019	Harvard University, Cambridge, MA, United States Visiting Postgraduate Research Fellow in Johan Paulsson's lab I worked on improving fluorescent proteins by designing and screening mutant libraries. I did cloning, mutagenesis, and microfluidics.
2017	University of Calgary, Calgary, AB, Canada Visiting Undergraduate Student in Peter Tieleman's lab I studied how P-glycoprotein interacts with lipids and transports drug molecules across cell membrane with coarse-grained molecular dynamics simulations.
FELLOWSHIPS, GRANTS, AND AWARDS	
2020	Gruber Science Fellowship at Yale University (declined)
2017	Zimin Foundation Summer Research Fellowship
2015 - 2017	Saint Petersburg Polytechnic University Academic Stipend
2015	Russian Academic Excellence Project Travel Grant
TEACHING EXPERIENCE	
Aug 2018,	School of Molecular and Theoretical Biology
Aug 2016,	Supervised selected high school students working on research projects
Aug 2015,	in biological physics, molecular evolution, and evolutionary genomics.
Aug 2014	In 2018, developed and taught a two-week-long course on data visualization (in English). Adam Mickiewicz University, Poznań, Poland Centre for Genomic Regulation, Barcelona, Spain Institute of Protein Research, Pushchino, Russia
2016 – 2017	Private math and physics tutor to high school students Worked one-on-one with students interested in out-of-school mathematics and physics. Saint Petersburg, Russia
Jul – Aug 2015,	Physics Olympiad Summer Training Program
Jul – Aug 2014,	Assisted with and later taught three-week-long courses in classical mechanics and calculus
Jul – Aug 2013	for a selected group of high school students (in Russian). Leningrad Region, Russia Sochi Pussia

Sochi, Russia

PROFESSIONAL SERVICE

Reviewer for the Journal of Theoretical Biology 2018, 2019 2015 - 2017Board Member of the School of Molecular and Theoretical Biology Alumni Association Participated in writing a constitution for the Alumni Association; mentored younger students through the Alumni Association mentoring program; organized talks and lectures for members of the Alumni Association located in Saint Petersburg and run a biweekly journal club. ADDITIONAL COURSES Jul - Aug 2018 Okinawa Institute of Science and Technology Computational Neuroscience Course Okinawa, Japan SELECTED PRESENTATIONS AND INVITED TALKS 2019 Population Genetics of the Spoon-billed Sandpiper EvolVienna Meeting, Nov 26, Vienna, Austria 2019 Population Genetics of the Spoon-billed Sandpiper Harvard Quantitative Biology Symposium, May 23, Cambridge, MA, USA 2018 Predicting Effects of Amino Acid Substitutions The Graduate University for Advanced Studies, Jul 17, Hayama, Japan 2017 P-gp Drug-Uptake: A Coarse-Grained Molecular Dynamics Study Centre for Molecular Simulation at the University of Calgary, Aug 16, Calgary, AB, Canada **PUBLICATIONS** 2014 Gurtovenko A. A., Lyulina A. S. Electroporation of asymmetric phospholipid membranes. Journal of Physical Chemistry B 118 (33): 9909–9918, 2014. doi: 10.1021/jp5028355.