ANASTASIA LYULINA

EDUCATION

2020 – present Stanford University
Ph.D. Student in Ecology and Evolution
Stanford, CA, United States
 2013 – 2017 Saint Petersburg Polytechnic University
B.Sc. in Physics
Saint Petersburg, Russia
 2016 Technical University of Munich
Exchange Student

RESEARCH APPOINTMENTS

Sep 2020 – present Graduate Student at Stanford University

Munich, Germany

Biology Department • Supervisor: Dmitri A. Petrov

As a rotation student, I am working on inferring mean fitness from lineage tracking experiments

in barcoded yeast populations.

Stanford, CA, United States

2017 – 2020 Research Assistant at the Institute of Science and Technology Austria

Evolutionary Genomics Group • Supervisor: Fyodor A. Kondrashov

My main project investigated the genetic variation in a nearly extinct bird species. I used mathematical modelling, machine learning, and extensive data analysis.

Klosterneuburg, Austria

Feb – Jul 2019 Visiting Postgraduate Research Fellow at Harvard University

I worked on improving fluorescent proteins by designing and screening mutant libraries.

I did cloning, mutagenesis, and microfluidics.

Cambridge, MA, United States

Jul – Aug 2017 Visiting Undergraduate Student at the University of Calgary

Centre for Molecular Simulation • Supervisor: D. Peter Tieleman

I studied how P-glycoprotein interacts with lipids and transports drug molecules across cell membrane with coarse-grained molecular dynamics simulations.

Calgary, AB, Canada

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 Mobility Grant

PUBLICATIONS

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.

SELECTED PRESENTATIONS AND INVITED TALKS

2019 Population Genetics of the Spoon-billed Sandpiper

EvolVienna Meeting, Nov 26, Vienna, Austria

	Anastasia Lyulii	
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	
	ADDITIONAL COURSES	
Jul – Aug 2018	Okinawa Institute of Science and Technology Computational Neuroscience Course Okinawa, Japan	
TEACHING EXPERIENCE		
Aug 2018, Aug 2016, Aug 2015, Aug 2014	School of Molecular and Theoretical Biology Supervised high school students working on research projects in biological physics, molecular evolution, and evolutionary genomics. 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, Jul – Aug 2014, Jul – Aug 2013	Physics Olympiad Summer Training Program Assisted with and later taught three-week-long courses in classical mechanics and calculus for high school students (in Russian). Leningrad Region, Russia; Sochi, Russia	
	PROFESSIONAL SERVICE	
2018, 2019	Reviewer for the Journal of Theoretical Biology	
2015 – 2017	Board 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;	

2018, 2019	Reviewer for the Journal of Theoretical Biology
2015 – 2017	Board 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.