ANASTASIA LYULINA

EDUCATION

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

Exchange Student

Munich, Germany

RESEARCH EXPERIENCE

Graduate Student at Stanford University Sep 2020 – present

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 - 2020Research 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

Department of Systems Biology • Supervisor: Johan Paulsson

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

I did cloning, mutagenesis, and microfluidics.

Cambridge, MA, United States

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

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 - 2017Saint Petersburg Polytechnic University Academic Stipend Russian Academic Excellence Project Travel Grant 2015

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.

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 in 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;

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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.