

## ANASTASIA S. LYULINA

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EDUCATION

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- Stanford University**, *Stanford, CA, United States* 2020 — present  
PhD in Biology
- Saint Petersburg Polytechnic University**, *Saint Petersburg, Russia* 2013 — 2017  
BSc in Physics
- Technical University of Munich**, *Munich, Germany* 2016

PROFESSIONAL APPOINTMENTS

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- Stanford University**, *Stanford, CA, United States* 2021 — present  
Graduate Research Assistant, Departments of Biology and Applied Physics  
Advisors: Benjamin Good and Dmitri Petrov
- Institute of Science and Technology Austria**, *Klosterneuburg, Austria* 2017 — 2020  
Research Assistant, Evolutionary Genomics Group  
Advisor: Fyodor Kondrashov
- Harvard University**, *Cambridge, MA, United States* 2019  
Visiting Postgraduate Research Fellow, Systems Biology Department  
Advisor: Johan Paulsson
- University of Calgary**, *Calgary, AB, Canada* 2017  
Visiting Undergraduate Student, Centre for Molecular Simulation  
Advisor: Peter Tieleman
- Russian Academy of Sciences**, *Saint Petersburg, Russia* 2016 — 2017  
Undergraduate Student, Institute of Macromolecular Compounds  
Advisor: Andrey Gurtovenko

PUBLICATIONS

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\* denotes equal contributions

4. Konczal M, **Lyulina AS**, Zapata L, Camara F, Vlasova A, Saona R, Bello C, Fraïsse C, Gut M, Derelle R, Zheng C, Lin Y, Tutukina MN, Plyuscheva M, Fontseré C, Tomkovich PS, Iakushev NI, Shepelev IA, Clements J, Jarrett N, Clark N, Arkhipov VY, Zöckler C, Digby R, Lappo EG, Dong L, Li S, Hu J, Liu Y, Ossowski S, Marques-Bonet T, Guigó-Serra R, Syroechkovskiy EE, Kondrashov FA. Population genomics of the critically endangered spoon-billed sandpiper. *Submitted to a journal; in review.*
3. Karageorgi M, **Lyulina AS**, Bitter MC, Lappo E, Greenblum S, Mouza ZK, Tran CT, Huynh AV, Oken H, Schmidt P, Petrov DA. Dominance reversal protects large-effect resistance polymorphisms in temporally varying environments. *bioRxiv*: 2024.10.23.619953, 2024.
2. **Lyulina AS\***, Liu Z\*, Good BH. Linkage equilibrium between rare mutations. *Genetics* 228(3): iyae145, 2024. *Featured on the cover.*
1. Gurtovenko AA, **Lyulina AS**. Electroporation of asymmetric phospholipid membranes. *Journal of Physical Chemistry B* 118(33): 9909–9918, 2014. *Featured on the cover.*

## HONORS AND AWARDS

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Mikitani Cancer Research Funding, Stanford Cancer Institute ( <i>\$40,000</i> )	2024
Excellence in Teaching Award, Department of Biology, Stanford University	2024
Sarah Hotchkis Ketterer Graduate Fellowship, Stanford University	2021 — 2024
Gruber Science Fellowship, Yale University ( <i>declined</i> )	2020
Summer Research Fellowship, Zimin Foundation	2017
Academic Stipend, Saint Petersburg Polytechnic University	2015 — 2017

## SELECTED TALKS AND SEMINARS

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Stochastic Physics in Biology Gordon Research Conference, <i>Ventura, CA, United States</i>	2025
Annual Meeting of the Society for Molecular Biology and Evolution, <i>Puerto Vallarta, Mexico</i>	2024
American Physical Society March Meeting, <i>Las Vegas, NV, United States</i>	2023
Bay Area Population Genomics Conference, <i>Davis, CA, United States</i>	2023
Harvard Quantitative Biology Symposium, <i>Cambridge, MA, United States</i>	2019
Graduate University for Advanced Studies, <i>Hayama, Japan</i>	2018

## PROFESSIONAL TRAINING

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Cold Spring Harbor Laboratory Yeast Genetics and Genomics Course <i>Cold Spring Harbor, NY, United States</i>	2022
Okinawa Institute of Science and Technology Computational Neuroscience Course <i>Onna, Japan</i>	2018

## TEACHING AND MENTORSHIP

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Stanford University, Biology 192/387: Theory and Application of Biological Diversity Statistics, <i>guest lecturer</i>	2025
Stanford University, Biology 85: Evolution, <i>teaching assistant</i>	2024
Stanford University, Biology 114: Building up Developing Scientists, <i>guest lecturer</i>	2023
Stanford University, Biology 113/244: Fundamentals of Molecular Evolution, <i>teaching assistant</i>	2022
School of Molecular and Theoretical Biology, <i>course instructor, research mentor</i>	2014 — 2018
Saint Petersburg Physics Olympiad Summer Training Program, <i>course instructor</i>	2013 — 2015

## SERVICE AND OUTREACH

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Stanford Biology PhD Program Admissions Committee, <i>student representative</i>	2023 — <i>present</i>
Stanford Biology PhD Preview Program, <i>volunteer</i>	2020 — <i>present</i>

Stanford Biology Department Mentorship Committee, <i>committee member</i>	2021 — 2022
School of Molecular and Theoretical Biology Alumni Association, <i>board member</i>	2015 — 2017
Referee for the <i>Journal of Theoretical Biology</i> , <i>PLOS Computational Biology</i> , <i>PLOS Genetics</i> , <i>Genetics</i> (with advisor), <i>PNAS</i> (with advisor).	