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Olga Borodina

	Education
2022 – Present	Harvard University, Cambridge MA, USA, PhD in Astronomy Output Advisor: Prof. Lars Hernquist
2020 – 2022	Moscow Institute of Physics and Technology, Russia (MIPT), Masters' Degree in Applied Mathematics and Physics Thesis: "On the density distribution of bound clusters after residual star-forming gas expulsion Advisor: Dr. Evgeny Polyachenko
2019 – 2020	Moscow Institute of Physics and Technology, Russia (MIPT), Bachelors' Degree in Applied Mathematics and Physics Thesis: "Unresolved Binaries in Open Clusters" Advisor: Dr. Dana Kovaleva
`	 Ural Federal University, Russia (UrFU), Spicialist Study in Astronomy Project: Unresolved Binaries and Galactic Clusters' Mass Estimates Advisor: Dr. Anton Seleznev
2017 – 2019	 Ural Federal University, Russia (UrFU), Associate Degree in Pedagogy Thesis: "Case method application for analytical thinking development in Astronomy classes Advisor: Dr. Galina Sorvacheva
	Research Experience
Mar 2022 – Aug 2022	Visiting Student, Max Planck Institute for Astronomy (MPIA)
2019 - 2022	Research Assistant, Institute of Astronomy, Russian Academy of Sciences (INASAN)
2021	Summer Intern, Max Planck Institute for Astronomy (MPIA)
2016 - 2019	Research Assistant, Ural Federal University (UrFU)
2018	Summer Intern, Kourovka Astronomical Observatory

Publications (1st author)

- Borodina O. et al., Unresolved Multiples and Galactic Clusters' Mass Estimates, ApJ, 908, 60
- 2020 Borodina O.I., Kovaleva D.A., Unresolved Binaries in Open Clusters, INASAN SR, 5, 351
- 2019 **Borodina O. et al.**, Unresolved Binaries and Galactic Clusters' Mass Estimates, **ApJ**, 874, 127

Publications (co-author)

- Shukirgaliyev, B.; [and 14 others, including **Borodina O.**], The bound mass of Dehnen models with centrally peaked star formation efficiency, **A&A**, 654, A53
- Polyachenko, E. V.; Shukhman, I. G.; **Borodina, O. I.**, Damped perturbations in stellar systems: Genuine modes and Landau-damped waves, **MNRAS**, 503, 660

- Conferences & Seminars Galaxy Coffee, MPIA, GERMANY Jul 2022 "On the Tremaine-Weinberg method: how much can we trust gas tracers to measure pattern speeds?" (talk) European Astronomical Society Annual Meeting, VALENCIA, SPAIN Jun 2022 "On the Tremaine-Weinberg method: how much can we trust gas tracers to measure pattern speeds?" (poster) Astrophysical Seminar INASAN, INASAN, RUSSIA Dec 2021 "The bound mass of Dehnen models with centrally peaked star formation efficiency" (talk) Volkswagen Trilateral Project Workshop, ARI/ZAH, INASAN, MAO, NAOC Sep 2021 "On the density distribution of bound clusters after residual star-forming gas expulsion: Zhao profiles" (talk) Nov 2020 63th All-Russian Scientific Conference, MIPT, RUSSIA "Unresolved Binaries in Open Clusters" (talk) o the Best Presentation Award Annual conference for young scientists, INASAN, RUSSIA 2019 - 2020"Unresolved Binaries and Galactic Clusters' Mass Estimates", "Unresolved Binary Stars in Open Clusters" (talks) Annual conference "Physics of the Space", KOUROVKA ASTRONOMICAL OBSERVA-2016 - 2019TORY, RUSSIA Presented projects on open clusters & binary stars based on 2MASS and GAIA DR1 (talks) Social Activity 2021 MPIA Student retreats, MPIA o Organized hiking and biking tours from Heidelberg for other interns and Ph.D. students 2016 - 2019Annual conference "Physics of the Space", KOUROVKA ASTRONOMICAL **OBSERVATORY** o Organized and coordinated entertainment activities (contests, intellectual games, excursions for >100 attendees) Feb 2017 -Astronomy Tutor, KANTRSKRIP SCHOOL May 2019 o Developed Astronomy & Astrophysics courses for high school students Trained all-Russia Astronomy Olympiad winner (2019) Scholarships & Awards The Andrei Sakharov Scholarship, for scientific achievements 2021 - 20222019 - 2021**Scholarship** for excellent academic achievements, MIPT 1st place in Astronomy Contest, Kourovka Astronomical Observatory 2019 Astronomy Contest among all students at conference "Physics of the Space" 2018 **Scholarship** of President of the Russian Federation 2018 **Scholarship** of Parliament of the Russian Federation 2018 Bronze Medal in Mathematics Olympiad, ARIEL UNIVERSITY, ISRAEL
- International Mathematics Contest among European, Western Asian, and post-Soviet countries

 2015 2019 Scholarship for excellent academic achievement, URFU

 2017 1st place in Astronomy Contest, KOUROVKA ASTRONOMICAL OBSERVATORY
 Astronomy Contest among all students at conference "Physics of the Space"
 - 2017 **1st place in Physics Contest**, URFU Physics Contest among undergraduate students