Borodina Olga

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Education

- Ural Federal University (2015 – 2019)
  - > General Math (Calculus, Linear Algebra etc.) and Physics
  - > Astrophysics, Galactic Astronomy, Astrometry, Observational Astronomy, Geophysics, Celestial Mechanics etc.

- Moscow Institute of Physics and Technology (2019 – now)
  - > Plasma physics, Quantum Mechanics, Statistics

Experience

- **Teaching** astronomy at KantrSkrip school (2017 – 2019)
  - > High school students (levels from basic to advanced)
  - > Developed original course and educational approaches
  - > Trained all-Russia Astronomy contest winner (2019)

- **Internship** at Kourovka Astronomical Observatory (2018)
  - > Sun telescope (spectroscopic observations)
  - > Reflecting telescope, 70cm with multichannel photometer
  - > The MASTER-II-Ural telescope

- **Annual conferences** "Physics of Space", Ekaterinburg (2016 – 2019)
  - > Presentations (open clusters & binary stars using 2MASS and GAIA databases)
  - > Organization (contests, intellectual games, excursions etc. for > 100 attendees)

Skills

- **CS:** Python, C, TopCAT, MS Office (Excel, PowerPoint etc.), VCS (Git, GitHub)
- **Languages:** Russian (native), English (fluent), Spanish (intermediate)
- **Strong soft skills:** teaching, organization, presentation, communication

Publications

- **Poster presentation** (2018): presentation of open cluster research team projects (link)
  - > Open clusters' radius and coordinates refinement
  - > Comparison of clusters' mass function based on 2MASS and GAIA DR1

- **Article** in the Astrophysical Journal (link)
  - > Developed state-of-the-art method of modeling binary stars
  - > Estimated the effect of unresolved binaries on the open clusters mass calculation

Interests in science

- Open clusters, binary stars
- Stellar & Galactic astronomy