

# Nazar Budaiev

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Ukrainian - native  
English - fluent  
Russian - fluent  
German - basic

## Education

Ph.D. in Astronomy, University of Florida	Expected 2025
B.A. in Astronomy and Physics, Boston University	May 2020

## Research Experience

<b>Graduate Student</b> , University of Florida	Fall 2020 - present
- Catalogue masers in a massive star forming cloud Sagittarius B2.	
<b>Research Assistant</b> , B.U. Astronomy Department	Fall 2018 - Summer 2020
- Developed IDL code to analyze performance of new VEGAS receiver on Green Bank Telescope when measuring high energy level transitions.	
- Examined and tested IDL code for modeling HI clouds in Milky Way interstellar medium.	
<b>Summer Student</b> , Green Bank Observatory	Summer 2019
- Crafted a 5 GHz continuum map of inner Galactic Plane with IDL and Python using data from the GBT Diffuse Ionized Gas Survey (GDIGS).	

## Teaching Experience

<b>Graduate student instructor</b> , Astronomy Laboratory, University of Florida	Fall 2020 - Spring 2021
- Taught an undergraduate non-major laboratory course. Recorded videos of labs to facilitate remote learning.	
<b>Teaching Assistant</b> , Stellar and Galactic Astrophysics, Boston University	Spring 2020
- Assisted students in an IDL programming heavy course.	
<b>Teaching Assistant</b> , Project Accelerate, Boston University	Fall 2018 - Spring 2020
- Lead lab section of Advanced Placement physics course for underserved students.	
<b>Summer Camp Mentor</b> , Physics Inspiring the Next Generation, Green Bank Observatory	Summer 2019
- Mentored 9th graders from underrepresented groups that worked on a research project for 2 weeks.	
<b>Learning Assistant</b> , General Physics I, Boston University	Fall 2017 - Spring 2018
- Facilitated students in various activities to succeed in introductory physics courses.	
<b>Course Leader</b> , Olympiad Mathematics, Lyceum 208, Ukraine	Summer 2016
- Designed and led a mathematics course for 8th graders interested in math competitions.	

## Awards

- Undergraduate Research Award**, for the work studying the physical properties and global distribution of diffuse ionized gas in the interstellar medium of the Milky Way Galaxy. May 2020
- Dean's List** 2017, Fall 2018
- Gold Medal**, awarded for exceptional academic performance, Lyceum 208, Ukraine 2009 - 2016

## Outreach

- Webinar Writer, Website Editor**, AstroSandbox Summer 2020 - present
- Compose study materials for Ukrainian students interested in astronomy. Promote and improve the level of astronomy education in Ukraine. Maintain English version of the website.
- Mentor**, Ukraine Global Scholars Spring 2020 - present
- Assist promising Ukrainian students to get into the world's best universities.
- Co-organizer and Judge**, Astronomy Fights August 2020
- Served as a judge in an astrophysics team competition with 50 participants from 15 regions of Ukraine.
- Demo Officer**, Society of Physics Students Boston University Chapter Fall 2019 - Spring 2020
- Prepared and conducted engaging demos and experiments for weekly meetings.
- Founder**, Undergraduate Astronomy and Physics Student Panel November 2019
- Organized a meeting for underclassmen to learn from and connect with upperclassmen.

## Personal Projects

- Review Sheets, Project Accelerate**
- Developed and organized review sheets for each module of the course.

## Computer Skills

- Python - proficient
- IDL - proficient
- MacOS, Linux, Emacs

## Other

- Admissions Ambassador**, B.U. Admissions Office Spring 2018 - Fall 2018
- Led campus tours and engaged with prospective students to inform about available facilities.
- Music School**, piano 2007 - 2016

## Publications

### *Talks and Posters*

*"A 5 GHz Continuum Map of the Inner Galactic Plane with the Green Bank Telescope,"* Poster. AAS 235th Meeting, Hawaii, January 2020.

*"A 5 GHz Continuum Map of the Inner Galactic Plane with the Green Bank Telescope,"* Talk. Astronomy Undergraduate Research Symposium, Boston University, October 2019.

*"Simulation Proposal for Fluids Lab."* Poster. Learning Assistant Poster Session, Boston University, December 2017.

Last updated: December 28, 2020