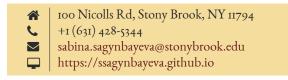
Sabina Sagynbayeva





EDUCATION

2021 - PRESENT MA/PhD: Physics (Astrophysics)

*Deferred my admission to Spring 2021 due to COVID-19

Stony Brook University, Stony Brook, NY

2016 - 2020 **Bachelor of Science:** Physics

Minor: Mathematics, Literature

Nazarbayev University, Nur-Sultan, Kazakhstan

RESEARCH EXPERIENCE

Flatiron Institute (CCA)

Research Assistant, Advisors: Dr. Rodrigo Luger, Dr. Will Farr

Stellar Spots of HAT-P-11

CURRENT, FROM FEB 2022 (FT)

Stony Brook University/Flatiron Institute (CCA)

Research Assistant, Advisors: Dr. Phil Armitage, Dr. Saavik Ford, Dr. Barry McKernan

Binary Black Holes Mergers in AGN Disks

CURRENT, FROM FEB 2021 (FT)

CURRENT, FROM JUN 2022 (FT)

Stony Brook University/Flatiron Institute (CCA)

Research Assistant, Advisor: Dr. Phil Armitage

Migration of Planets and Stars in Protoplanetary and AGN Disks

JUL 202I - AUG 202I (PT)

Subaru Telescope/Eureka Scientific

Research Intern, Advisor: Dr. Thayne Currie

Direct Imaging and Astrometry of an Extrasolar Planet

JUN 2020 - AUG 2020 (FT)

Nazarbayev University

Research Assistant, Advisor: Dr. Daniele Malafarina

Implications of the Departure From Spherical Symmetry for Black Holes and Black Hole Mimickers

MAY 2019 – AUG 2019 (FT)

University of Cambridge

Research Intern, Advisors: Dr. Roman Rafikov, Dr. William Béthune

Self-gravitating Planetary Envelopes and the Core-nucleated Instability

AUG 2018 – DEC 2019 (PT)

Nazarbayev University

Research Assistant, Advisors: Dr. Ernazar Abdikamalov, Dr. Dana Alina

Analysis of the Relative Orientation of the Magnetic Field Structure in Monoceros OB1 Region

PUBLICATIONS

Thayne Currie et al. [including **S. Sagynbayeva**]. "Direct Imaging and Astrometric Discovery of an Extrasolar Planet Orbiting a Dusty, Accelerating Star." *In prep.* (2022).

Daniele Malafarina, Sabina Sagynbayeva. "What a difference a quadrupole makes?" General Relativity and Gravitation (2021).

D. Alina et al. [including **S. Sagynbayeva**]. "Large-scale magnetic field in the Monoceros OB-1 East molecular cloud." Astronomy & Astrophysics (2020).

AWARDS & FELLOWSHIPS

2022 - 2024 LSSTC Data Science Fellowship Program The program that consists of six week-long sessions on data science. 2020 Young Researchers Alliance FRIP program The stipend awarded to students for research projects. Stipend: \$1,000 2019 Yessenov Foundation Scholarship Awarded to ten best students from Kazakhstan for a research internship in the US and European universities and laboratories. Funding: \$7,500 2018 - 2019 Dean's List For achieving a semester GPA higher than 3.75 (out of 4.00) **INVITED TALKS** MAY 2022 AGN accretion disks and black hole binaries University of Kansas APR 2021 How do planets form? Astronomy on Tap, Baton Rouge TEACHING APPOINTMENTS MAR 2022 - APR 202I **Group Project Leader** Women in Science and Engineering program Stony Brook University AUG 2021 - DEC 2021 Teaching Assistant **Courses:** Introduction to Planetary Sciences Department of Physics & Astronomy, Stony Brook University JAN 2017 - JAN 2019 **Tutor of Mathematics** Courses: Calculus I,II,III, Linear Algebra, Ordinary Differential Equations, Real Analysis Department of Mathematics, Nazarbayev University **SER VICE** SEP 202I - PRESENT Senator for the Department of Physics & Astronomy, Member of the Graduate DEI Committee Graduate Student Organization, Stony Brook University JUN 2021 - PRESENT Underclass person-at-large & Director of External Affairs Physics Graduate Student Association, Department of Physics & Astronomy, Stony Brook University MAR 2021 - SEP 2021 Member of the Diversity Committee Department of Physics & Astronomy, Stony Brook University SELECTED OUTREACH JAN 2021 - PRESENT Writer for Astrobites.org, Chair of the Advertising and Undergraduate Committees A website where graduate students publish daily summaries of recent papers on astro-ph. APR 2018 – MAY 2020 President of the Women in Physics Club Nazarbayev University OCT 2017 - SEP 2020 Volunteer at the "Education for all" center An organization that helps children with mental and physical disabilities. I organized the first three inclusive musical theatre performances in Kazakhstan

Physics Department Representative

Student Council of Nazarbayev University

SEP 2017 - MAY 2020

NOV 2017

Coordinator of the Children's Development Foundation's Warm Winter project

Coordinated a group of students to help low-income families that cannot afford winter clothes for their kids.

COMPUTATIONAL SKILLS

PROGRAMMING LANGUAGES Python, C/C++, IDL, Julia, SQL

HYDRO CODES Athena++, PLUTO

N-BODY CODES REBOUND

отнек Mathematica, ds9, LATEX

LANGUAGES

English (advanced), Russian (native), Spanish (B1)

HOBBIES

SONGWRITING I album, 3 singles on all streaming platforms

MUSICAL INSTRUMENTS drum kit, piano, guitar, ukulele

DANCE STYLES waacking, house, jazz-funk, vogue

ADDITIONAL INTERESTS photography, chess