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

Hierarchical Bayesian Modeling of the Stellar Surface of HAT-P-11

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

Stony Brook University/Flatiron Institute (CCA)

Research Assistant, Advisor: Dr. Phil Armitage

Migration of Planets and Stars in Protoplanetary and AGN Disks

Subaru Telescope/Eureka Scientific

Research Intern, Advisor: Dr. Thayne Currie

Direct Imaging and Astrometry of an Extrasolar Planet

Nazarbayev University

Research Assistant, Advisor: Dr. Daniele Malafarina

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

University of Cambridge

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

Self-gravitating Planetary Envelopes and the Core-nucleated Instability

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).

CURRENT, FROM JUN 2022 (FT)

CURRENT, FROM FEB 2022 (FT)

CURRENT, FROM FEB 2021 (FT)

JUL 202I - AUG 202I (PT)

JUN 2020 - AUG 2020 (FT)

MAY 2019 – AUG 2019 (FT)

 $AUG\ 2018-DEC\ 2019\ \ (PT)$

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

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.

NOV 2017

COMPUTATIONAL SKILLS

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

HYDRO CODES Athena++, PLUTO

N-BODY CODES REBOUND

OTHER Mathematica, ds9, LTEX

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