

Ievgeniia (Ivy) Boiko

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Education

California State University, Long Beach (2023 - present) - Long Beach, CA

- Bachelor of Science in Physics (expected December 2025)

Monterey Peninsula College (2021 - 2023) - Monterey, CA

Research Experience

Monterey Institute for Research in Astronomy (2022 - 2023) - Marina, CA

- As a volunteer and intern, I worked alongside a research astronomer on various projects, such as:
 - Observational astronomy; operated and took data on the polarization of various stars and planets with both a 14- and 36-inch telescope
 - Software installation, debugging, and reading/writing programs; installed and used a Fortran program on a Linux system to analyze data in order to determine the D/H ratio in the atmosphere of Neptune
 - Research; made use of online databases such as ADS and SIMBAD to contribute to a research paper on high polarization standard stars, contributed data obtained from several independent observations

Publications

In Preparation:

1. Daniel V. Cotton, Kimberly Bott, Jeremy Bailey, Lucyna Kedziora-Chudczer, Ain De Horta, Graeme Melville, Normandy Filcek, Jonathan P. Marshall, Derek L. Buzasi, **Ievgeniia Boiko**, Nicholas Borsato, Jean Perkins, Daniela Opitz, Shannon Melrose, Gesa Grüning, Dag Evensberget and Jinglin Zhao, “*Polarization position angle standard stars: a reassessment of θ and its variability for seventeen stars based on a decade of observations*,” in preparation for *Monthly Notices of the Royal Astronomical Society*.

2. Jeremy Bailey, Daniel V. Cotton, Kimberly Bott and **Ievgeniia Boiko**, “*One hundred years of Venus polarimetry*,” in preparation for *Icarus*.
3. Daniel V. Cotton, Kimberly Bott, **Ievgeniia Boiko**, Lucyna Kedziora-Chudczer, Jeremy Bailey, Behrooz Karamiqucham and Jonathan Horner, “*Towards an improved determination of the methane D/H ratio for Neptune*,” in preparation for *Icarus*.

Computer Skills

Languages and Software:

Intermediate proficiency with Fortran, HTML; basic proficiency with Python, LaTeX

Operating Systems:

Linux, MacOS

Professional Organizations/Clubs

Member, Astronomy Club (Sep. 2023 - present) - Cal State Univ., Long Beach

Member, Society of Physics Students (Sep. 2023 - present) - Cal State Univ., Long Beach

Member, Women in Physics (Sep. 2023 - present) - Cal State Univ., Long Beach

Other skills

- Bilingual: fluent in Russian and English

Employment Experience

Trader Joe's (2020 - 2023) - Monterey, CA

- Shift Lead/Order Writer: July 2021 - March 2022
- Crew Member: July 2020 - June 2023

Fournier's Bakery Cafe (2019 - 2020) - Pacific Grove, CA

- Cashier/Barista

High School Tutor (2018-2020) - Pacific Grove, CA

- Tutored a middle school student in math and science