

# Akbota Nurpeisova

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## Education

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**SDU University**, Bachelor of Science in Mathematics (Government Grant with Scholarship)

2022-2026

Third-year student with coursework in advanced mathematical topics.

## Relevant Coursework

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- GPA: 3.37/4.0
- **Coursework:** Real Analysis, Functional Analysis, Equations of Mathematical Physics, Optimization Methods, Ordinary Differential Equations, Complex Analysis, Mathematical Statistics and Probability, Mathematical Olympiad Problems.

## Research and Interests

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Interested in elliptic partial differential equations, functional analysis, optimization methods, and numerical methods for PDEs.

### Research Experience

Currently working on the topic "Explicit Green's Functions for some Polyharmonic boundary value problems" under the supervision of Dr. N. Kakharman.

## Technical Skills

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- **Programming:** Python, Julia
- **Software:** LaTeX, Mathematica, Jupyter Notebooks

## Extracurricular Activities

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- Member of Student Government and part of the Education Ministry.
- Active member of a volunteering club, participating in community outreach programs.

## Conferences and Workshops

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- VII Republican Conference of Scientific Research Works "Zhas al-Farabi" within the framework of the "Spiritual Renewal" program and dedicated to the 1150th anniversary of Abu Nasr al-Farabi, 2nd degree diploma (2020)
- "21st century ecology" international conference, 2nd degree diploma (2020)

## Awards

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- Altyn Belgi, Awarded a Government Merit Scholarship for academic excellence (2022);
- Ak bota, Certificate for intellectual marathon (2017, 2019);
- Intellectual game "Kangaroo-mathematics for everyone", 3rd degree diploma (2022);
- Regional Physics Olympiad, 3rd degree diploma (2022);
- International linguistic competition "Kangaroo-linguist", 1st degree diploma (2018);
- International English Language Competition "Snow magic", certificate (2018);
- Olympiad "Spring 2016" (drawing), 1st degree diploma (2016);
- II International Competition "Myriads of Discoveries", 1st degree diploma (2016);
- Republican People's Internet Olympiad in Physics, 2nd degree diploma (2019)