

# Baistan Zhyldyzbekov

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## EDUCATION

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**The Hong Kong University of Science and Technology (Guangzhou)** Guangzhou, China  
*B.S. in Data Science and Big Data Technology; Full Tuition Scholarship* Sept. 2025 – May 2029

**Tamchy Gymnasium School** Tamchy, Kyrgyzstan  
*High School Diploma; GPA: 5.0/5.0* Sept. 2013 – June 2024

- National Main Test (ORT): **218/245** (Top **0.7%** nationwide); achieved the **highest score in school history** since the exam's introduction in 2003.
- Bronze Medalist, 2024 Republican Math Olympiad (Issyk-Kul Region); secured the school's first mathematics victory since 2014.

## EXPERIENCE

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**GenAI Research Assistant** Oct. 2025 – Present  
*HKUST(GZ) Computational Media and Arts (CMA) Lab* Guangzhou, China

- Building a research pipeline for affective 3D scene generation by combining 3D Gaussian Splatting with VLM-guided, emotion-conditioned editing of panoramic scenes.
- Developing and evaluating visual editing workflows with **Qwen2.5-VL**, **InstructPix2Pix**, and **PyTorch**, with emphasis on scene-wide emotional control, content preservation, and hallucination analysis.

**Mathematics Instructor & Mentor** Sept. 2023 – May 2024  
*Tamchy Gymnasium School* Tamchy, Kyrgyzstan

- Selected to teach advanced mathematics while mentoring students on university applications, national exams, and Olympiad preparation.

## PROJECTS

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**lectureGZ** | [GitHub](#) Mar. 2026 – Present  
*Full-Stack Developer*

- Built an AI-powered lecture study platform with **Next.js**, **React**, **TypeScript**, **Tailwind CSS**, **PostgreSQL**, and **pgvector** for authenticated PDF upload, indexing, and retrieval.
- Implemented a lecture-grounded **RAG** pipeline with PDF parsing, chunking, embeddings, vector retrieval, and page-aware grounding to generate source-anchored explanations.
- Developed quiz generation, free-response evaluation, and interactive PDF-selection workflows, and integrated **Clerk**, **OpenRouter**, and **Render** for authentication, model access, and deployment.

**TradeMaster Cup 2025 Kaggle Competition** | [GitHub](#) Dec. 2025 – Mar. 2026  
*Data Science / Quant Modeling Project*

- Placed **4th/57 teams** in a university-wide Kaggle competition by identifying deterministic leakage in the target-generation process and reconstructing most predictions exactly from future **feature\_16** values.
- Derived exact target-reconstruction formulas and reduced the forecasting problem to tail-only prediction on the final unknown **10/60/240** rows for short-, medium-, and long-horizon targets.
- Built custom boundary backtests to simulate the hidden final trading day and developed reproducible pipelines with **Python**, **Pandas**, **NumPy**, **scikit-learn**, **XGBoost**, and **PyTorch**.

## TECHNICAL SKILLS

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**Languages:** Python, TypeScript, JavaScript, SQL, HTML5, CSS3  
**Libraries:** Pandas, NumPy, scikit-learn, XGBoost, PyTorch, React, Next.js  
**Frameworks:** FastAPI, Tailwind CSS, Pydantic  
**Databases:** PostgreSQL, pgvector  
**Tools:** Git, GitHub, Render, Vercel, Railway, Clerk, OpenRouter  
**Concepts:** Feature Engineering, Backtesting, Time-Series Modeling, Model Evaluation, RAG, Vector Search, Authentication, REST APIs, PDF Ingestion Pipelines, Reproducible Research