

Noah Krever

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EDUCATION

Columbia University, New York, NY

May 2022

Bachelor of Arts, Data Science (CS & Stats) with Mathematics Minor

- Cumulative GPA: 3.8/4.0 | Major GPA: 3.9/4.0 | Dean's List, Kluge Scholar

PUBLICATIONS & PRESENTATIONS

1. Noah Krever, Jakub Černý, Moïse Blanchard, Christian Kroer. "GUARD: Constructing Two-Player Matrix and Security Games for Benchmarking Game-Theoretic Algorithms." *NeurIPS* 2025. **Spotlight** in D&B track (top 3%)
2. Noah Krever, Maria Charisi, Daniel D'Orazio, Zoltan Haiman. "Is Quasar PG1302-102 Periodic?" *Preprint*, 2022

RESEARCH EXPERIENCE

Columbia University IEOR Department, Lily Xu Group | NY, NY

Researcher, Optimization

Oct 2025 – Present

- Working with nonprofit Natural State to rigorously optimize eco-credit allocation to maximize Kenyan ecosystem wellbeing
- Optimizing and modeling ecological health metrics and audio-video sensor readings for game-theoretic robust data auditing

Columbia University IEOR Department, Christian Kroer Group | NY, NY

Researcher, Algorithmic Game Theory

June 2024 – Present

- Published first-author paper introducing novel statistical theorems and detailing our open-source game theory framework
- Implemented original suite of standard algorithms for Nash and Stackelberg equilibria, mixed-integer linear programming, incremental strategy generation (double oracle solvers), and self-play with no-regret learners
- Built flexible object-oriented framework for converting real-world data into hyper-realistic security game instances

Columbia University Physics Department, Zoltan Haiman Group | NY, NY

Researcher, Computational Astronomy

Jan. 2019 – May 2022

- Lead independent research project of false periodicities in quasar time-domain surveys, evaluated binary black-hole candidate
- Utilized HPC cluster for large-scale time-series simulations & machine learning toolkits for statistical analysis
- Scripted statistical algorithms to perform spectral analysis, Markov processes, signal processing, and model-fitting

TCNJ Physics Department, Tuan Nguyen Lab | NY, NY

Summer Researcher, Computational Biophysics

June 2017 – Aug. 2017

- Mapped neuronal network bursting and connectivity using single cell laser scanning photo stimulation with calcium imaging
- Wrote original programs for automating cell analysis, cut processing from one week to 3 seconds

PROFESSIONAL EXPERIENCE

Roc360 | NY, NY

Data Scientist

June 2022 – Present

- Solving open-ended problems in Markov processes, graph theory, network modeling & algorithms
- Training, deploying, automating wide range of machine learning models for classification, ranking, prediction
- Leading development of SQL/Python analytics data layer linking pipelines and models using dbt

Columbia University Computer Science Department | NY, NY

Teaching Assistant, COMS 4701: Artificial Intelligence & ENGI 1006: Python

Sept. 2020 – May 2022

- Lead office hours to help students understand advanced AI algorithms and programming concepts, designed review material
- Graded and evaluated numerous projects, written/programming problem sets, and exam submissions

SKILLS

Languages: Python (ML/Deep Learning Toolkits, Pandas, Scripting & Engineering Libraries), Java, R, SQL, JavaScript

Quantitative: ML & Deep Learning, Formal Math & Proofs, Statistical Analysis, Regression, Modeling, Data Wrangling & Viz.

SELECTED SIDE PROJECTS

Post-flop Regret Minimization in 3-Player Poker – Implemented a custom version of CFR+ to solve a simplified variant of post-flop 3-player poker and displayed/verified output strategies

Understanding Neural ODEs for Time Series – Built and evaluated novel Neural ODE architectures to parameterize time series and solve the problem of forecasting, compared with existing VAR and LSTM methods

Traversing Latent Spaces for Interpretability – Novel exploration of deep classifiers' latent spaces, probed decision-making process, explored blind spots, applications in improving robustness against adversarial examples

ACTIVITIES

Columbia Poker Club, Founder and President (300+ Member Club Organizer, Teacher, Player)

July 2021– May 2022

Columbia University Esports Club, Rocket League Team Captain & Founder (Top 0.1% of players)

June 2020 – May 2022

Columbia University Chess Club, Member (2100 online ELO)

Sept. 2020 – May 2022