Noah Krever

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EDUCATION

Columbia University, Department of Computer Science — New York, NY
Ph.D. in Computer Science — Starting Fall 2026

- Research Areas: AI/ML, EconCS, Game Theory, Statistics, Optimization
- Advisors: Prof. **Lily Xu**, Prof. **Rachel Cummings**

Columbia University, Columbia College — New York, NY
B.A. in Computer Science & Statistics, Minor in Mathematics — 2018 – 2022
Major GPA: 3.90/4, Cumulative GPA: 3.78/4

- Honors: *Columbia Undergrad. Scholars Program (CUSP) Kluge Scholar, Dean's List*
- Advisors: Prof. **Christian Kroer**, Prof. **Zoltán Haiman**

RESEARCH INTERESTS

My research interests lie at the intersection of machine learning and computational economics, drawing on tools from game theory, statistics, and optimization. I am particularly interested in the foundations of algorithmic decision-making in strategic and incomplete-information settings, as well as their responsible applications in society.

PUBLICATIONS

(P: Preprint & Manuscript, C: Conference & Journal)

[C1] GUARD: Constructing Realistic Two-Player Matrix & Security Games for Benchmarking Game-Theoretic Algorithms
Noah Krever, Jakub Černý, Moïse Blanchard, Christian Kroer
In the Proceedings of *Advances in Neural Information Processing Systems* (NeurIPS) 2025
Spotlight (Top 3% in Datasets & Benchmarks)

[P1] Is Quasar PG1302-102 Periodic?
Noah Krever, Maria Charisi, Daniel D'Orazio, Zoltán Haiman
Manuscript in prep. for *Astrophysical Journal Letters* or similar

RESEARCH POSITIONS

Research Assistant, Columbia University IEOR Dept. — New York, NY
Optimization and Statistics, hosted by Prof. Lily Xu — Oct. 2025 – Aug. 2026
Project: Submodular resource allocation, statistical estimation, game-theoretic data-auditing

Research Assistant, Columbia University IEOR Dept. — New York, NY
Algorithmic Game Theory, hosted by Prof. Christian Kroer — June 2024 – Dec. 2025
Project: Formalizing and addressing the limitations of synthetic Stackelberg security games

Undergraduate Research Assistant, Columbia University Physics Dept. — New York, NY
Computational Astrophysics, hosted by Prof. Zoltán Haiman — Jan. 2019 – May 2022
Project: Studying false periodicities in quasar time-domain surveys, signal processing

Summer Research Assistant, The College of New Jersey Physics Dept. — Ewing, NJ
Computational Biophysics, hosted by Prof. Tuan Nguyen — June 2017 – Aug. 2017
Project: Automation of neuronal connectivity mapping and network-bursting analysis

INDUSTRY EXPERIENCE

Data Scientist, Roc360 — New York, NY
Responsibilities: — 2022 – 2026

- Building machine learning models for classification, ranking, and prediction across lead-generation campaigns and high-dimensional market analyses.

- Designed Markov models and MCMC simulations for risk assessments, and graph algorithms for real-estate network entity resolution and community detection.

Data Science Intern, Roc360 New York, NY
Responsibilities: 2021 – 2022

- Feature engineering and linear regression for analysis of loan-volume time series
- Fine-tuning language models for identifying leads using real-estate descriptions

AWARDS AND HONORS

Spotlight Paper, NeurIPS | San Diego, CA 2025
GUARD – Top 3% of submissions, designated a highlight in main conference proceedings

Dean's List, Columbia University 2019 – 2022
University-wide recognition for high GPAs per semester

Kluge Scholar, Columbia Undergraduate Scholars Program (CUSP) 2018 – 2022
Scholarship program offered to select high-achieving students, grants funding for research and internships

TEACHING EXPERIENCE

Artificial Intelligence (COMS 4701) Spring 2022
Teaching Assistant at Columbia University CS Department (Instructor: Dr. Tony Dear)

Intro to Computing in Python (ENGI 1006) Fall 2020, Fall 2021
Teaching Assistant at Columbia University CS Department (Instructor: Dr. Daniel Bauer)

PRESENTATIONS AND TALKS

Realistic vs. Synthetic Stackelberg Games for Benchmarking Game-Theoretic Algorithms

- Prof. Lily Xu's lab meeting | New York, NY Feb. 2026
- Spotlight poster presentation @ NeurIPS 2025 | San Diego, CA Dec. 2025
- Roc360 Data Science Team Learning Workshop | New York, NY Aug. 2025

ACADEMIC SERVICE

Program Committee Member
7th International Workshop on Agents for Societal Impact (ASI) @ AAMAS 2026

Editor, Board Member, Committee Chair
Columbia Undergraduate Science Journal (CUSJ) 2018 – 2022

MISC. ACTIVITIES

Poker

- **Founder & president** of Columbia Poker Club (500+ members)
- Semi-professional NL Texas Hold 'Em player ($1/$2 online, up to $10/$20 live)
- Poker theory coach and instructor, creator of online educational videos

Esports

- Columbia Rocket League **team captain & founder** (top 0.1% of players)

Chess

- Columbia University Chess Club member (Online ELO: 2100 blitz, 2200 bullet)

REFERENCES

Prof. Lily Xu
Department of IEOR, Columbia University
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Prof. Rachel Cummings
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Prof. Christian Kroer
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Prof. Augustin Chaintreau
Department of CS, Columbia University
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