

# Yasin Tarabar

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## EDUCATION

### Yale University

New Haven, CT

*B.S./M.S. Mathematics, B.S. Computer Science (GPA: 3.98/4.00)*

*Aug. 2019 – Present*

- Coursework (Math): Algebraic Topology, Modern Algebra, Functional Analysis, Algebraic Geometry, Harmonic Analysis, Measure Theory, Minimal Surfaces & Differential Geometry, Topics in Analysis
- Coursework (CS): Intensive Algorithms, Systems, Machine Learning and Data Mining, Unsupervised Learning for Big Data (TA), Optimization & Computation, Computational Intelligence for Games, Control Theory

## EXPERIENCE

### Citadel Securities

New York, NY

*Quantitative Trading Intern*

*June 2022 – Aug. 2022*

- Researched trading strategies on the International ETFs and Single Stock Options desks.
- Attended trading and statistics classes, participated in trading competitions, studied board game/poker theory.

### Yale University

New Haven, CT

*Research Assistant*

*May 2020 - Present*

- Currently researching diffusion curvatures (measure of local curvature based on diffusion maps) of point cloud embeddings and applications to neural network loss landscapes with Professor Ian Adelstein.
- Worked at Krishnaswamy Lab on vertex-frequency clustering (clustering based on graph geometry in context of signal dynamics), used wavelet transforms to optimize algorithm for larger datasets.
- Previously maintained the AAN (All About NLP) search engine for LILY (Language, Information, and Learning at Yale), worked on summarization/combinatory categorial grammar paper, and wrote scripts to convert data to standardized format for DART (dataset for structured data to text generation).

### Facebook

Menlo Park, CA

*Software Engineer Intern - Ads ML Infra Team*

*June 2021 – Aug. 2021*

- Built user-interface for machine learning engineers to track feature information and onboarding status for Facebook feature authoring in order to both streamline and identify bottlenecks in feature authoring process.
- Worked to decrease feature authoring time from 3 weeks to 3 days, focused on optimizing feature compiler and data onboarding for database of 300,000+ features.

### Herb Scarf Summer Research Program

New Haven, CT

*Research Assistant*

*May 2020 – July 2020*

- Researched effects of professional network structure on financial career outcomes at Yale School of Management.
- Wrote Python scripts to analyze structure of networks, scrape and organize data from dissertation database.

### Mathcounts @ Yale

New Haven, CT

*Outreach Coach*

*Jan 2020 – Present*

- Teach competition math to New Haven elementary students once per week.
- Write lesson plans and practice problems to prepare students for competition, help organize math competitions at Yale for students in district.

## PUBLICATIONS

- Radev, Dragomir, [...], Yasin Tarabar, et al. "DART: Open-Domain Structured Data Record to Text Generation." ArXiv:2007.02871 [Cs], Jul 2020. arXiv.org, <http://arxiv.org/abs/2007.02871>. (NAACL 2021)

## AWARDS

- AATG-PAD Study Trip Award, National German Exam Highest CT Scorer
- 3x AIME Qualifier, 3x ARML State Math A-Team, 2x Top GNHML Regional Math League Scorer

## SKILLS

### Programming Languages

Python, C, Java, R, Racket, MATLAB, Mathematica, React, Hack, PyTorch  
English, German, Bosnian/Croatian/Serbian