Motti Goldberger

Yale School of Management, Yale University

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Education

Yale School of Management, New Haven, CT — 2023–2028 (expected)
Ph.D. in Operations
Advisor: Nils Rudi

University of Maryland, College Park, MD — 2019–2023
B.S. in Mathematics

Research Interests

Methodology	Best-arm identification, ranking and selection, active ranking, Bayesian sequential learning, multi-armed bandits.
Applications	Human evaluation processes, sequential experimental design, sports analytics, simulation optimization.

Papers

[1] Optimal Top-k Identification from Pairwise Comparisons (arXiv)
Motti Goldberger & Nils Rudi
ICML 2026 *(PMLR)*

[2] Fundamental Limitations of Fixed-Budget Best-Arm Identification (arXiv)
Motti Goldberger
Under review

[3] Selecting the Best Few with Human Evaluators: Adaptively Combining Ratings and Pairwise Comparisons (arXiv)
Motti Goldberger & Nils Rudi
Under review

[4] A Simple and General Approach to Top-k Selection (arXiv)
Motti Goldberger & Nils Rudi
Under review

[5] Active Ranking via Minimizing the Sum of Top-k Regrets
Motti Goldberger & Nils Rudi
Work in progress
Early version accepted at the ***NeurIPS 2026 MLxOR Workshop***

Honors and Awards

Harry and Heesun You Fellowship, Yale School of Management — 2026
- Awarded to one student across all Yale SOM Ph.D. programs.

Strauss Teaching Assistantship, Department of Mathematics, University of Maryland — 2022
- Awarded to advanced mathematics majors with excellent teaching ability.

Teaching

Yale School of Management
Teaching Assistant
MGT 817: Sports Analytics — Fall 2025, 2026
MGT 809: Advanced Business Analytics — Fall 2024

University of Maryland, Department of Mathematics — 2021–2022
Strauss Teaching Assistant
Calculus I and Calculus II. Led twice-weekly discussion sections for 25 students.

Additional Experience

MIT Lincoln Laboratory, Huntsville, AL — Summer 2022
Research Intern
Designed an algorithm for a dynamic weapon–target assignment problem.

Florida Institute of Technology, Melbourne, FL — Summer 2021
Research Intern (NSF REU)
Built a model for predicting ciguatera fish poisoning cases based on climate covariates.

Broad Institute of MIT and Harvard, Boston, MA — 2019
Computational Biology Intern
Developed a Bayesian model of DNA polymerase slippage for short-tandem-repeat sequencing error.