Ryan A. Divan

Contact Information

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Education

B.A., Mathematics, Princeton University, Princeton, NJ — **May 2028 (expected)**

G.P.A.: 3.87/4.00

Relevant coursework: Numerical Analysis / Scientific Computing, Probabilistic Combinatorics, Probability Theory, Linear Algebra, Theoretical Machine Learning, Algebra I, Real Analysis

Research Positions

Student Researcher, Princeton University PACM, NJ — **October 2025–Present**
Conduct independent research in randomized numerical linear algebra under Prof. Marc Gilles.

Summer Research Scholar, NJGSS @ Drew University, Madison, NJ — **July–August 2023**
Selected as one of 60 students statewide to conduct fully-funded summer research.

Research Experience

1. *Randomly pivoted Cholesky: investigation and applications*
   Advised by Prof. Marc Gilles, investigated theory and implemented machine learning applications of the RPCholesky algorithm (Chen–Epperly–Tropp–Webber, 2025) in Python/NumPy.

2. *Effect of Fiberware / PLA Compostables on Compost Maturity*, with Daniela Cruz.
   Advised by Prof. Xinning Zhang, analyzed effect of fiberware composition on compost maturity by proxy of emissions with R. Presented at Princeton Geoscience Department poster session.

3. *Combating Malaria: Drug Discovery Approach Using Thiazole Derivatives Against PfPKG Enzymes*
   Advised by Prof. Fina Liotta, conducted organic synthesis and in silico analysis using UCSF Chimera for docking simulations. Presented at the David Miyamoto Scholars Conference.

Industry Experience

Founder & COO, EVAL Gaming Inc., Princeton, NJ — **August 2024–Present**
Lead data analysis and modeling efforts for player performance datasets in scholastic esports.

Data Analyst Intern, Mendocino Food Consulting, Remote — **July–September 2025**
Created various data science and web development efforts for the consultancy.

Summer Accelerator Fellow, Keller Center, Princeton, NJ — **June–August 2025**
Awarded $30,000 in funding to manage team and build data analytics company, EVAL Gaming.

Data Analyst Extern, Mobalytics, Remote — **May–June 2024**
Performed data analysis and market research for expansion into new esports markets.

Honors and Awards

Venture Award Grantee, Princeton Student Ventures, **2025**

ESAF Scholar, Entertainment Software Association Foundation, **2025**

U.S. Presidential Scholar Semifinalist, U.S. Department of Education **2024**

National Merit Scholarship Finalist, National Merit Foundation **2024**

NJ Governor's School in the Sciences Scholar, NJ Department of Education **2023**

Teaching Experience

Undergraduate Course Assistant, Princeton University

MAT215, Single Variable Analysis with an Introduction to Proofs **Fall 2025**

MAT217, Honors Linear Algebra **Spring 2026**

Presentations, Research Talks, and Assorted Outreach

Research Presentations

Princeton Geosciences Department Poster Session **December 13, 2024**
Poster: *Effect of Fiberware / PLA on Compost Maturity*

David Miyamoto Scholars Conference, Drew University **August 4, 2023**
Paper: *Combating Malaria: A Drug Discovery Approach*

Outreach

Invited speaker, Games for Change Next-Gen Summit **February 17, 2025**
Panel: Creator Panel with EVAL Gaming

Keller Center eLab Demo Day 2025 **July 31, 2025**
Pitch: "EVAL Gaming: Connecting Gamers to College Scholarships"

Guest on *The Video Gamers Podcast* **July 18, 2025**
Episode: Gaming Scholarships & The Future of Esports in Schools

Invited speaker, Garden State Esports Summit 2024 **November 22, 2024**
Panel: Voices of Esports

Computer Skills

Proficient in Python and scientific computing / ML libraries (NumPy, Pandas, Tensorflow, PyTorch) Experience in Java, C#, Lean, Javascript. Markup languages: LaTeX, HTML, CSS, Markdown.

Other Projects

Kachi (skincare data app), exited, **2025**
Next.js, Wordware, Python (FastAPI)

Project Leo (2D Unity platformer game), lunarflame.dev/projects/project-leo, **2023–2025**
Unity, C#, Python

Assorted Rocket League articles, Dignitas, dignitas.gg, **2022–2024**

References

Prof. Marc Gilles, Assistant Professor of Mathematics, Princeton University
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Princeton, NJ 08540
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office phone: 1-609-258-4200

Dr. Bryan Quoc Le, Founder & CEO, Mendocino Food Consulting
10451 Nichols Lane
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Prof. Derek Lidow, Professor of the Practice in the Keller Center, Princeton University
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