

SUMMARY

Mathematics and Economics graduate from the University of Toronto with hands-on experience applying statistical modeling, machine learning, and data analysis to real-world problems in finance, education, and disaster economics. Proven ability to translate complex quantitative research including predictive modeling of economic risk and demographic trend analysis into actionable insights, backed by proficiency in Excel, Python, and R. Combines strong analytical rigor with entrepreneurial experience managing a multi-artist creative venture that generated measurable revenue and audience growth. Seeking to apply a quantitative, detail-oriented skill set to a data-driven analytical role.

PROFESSIONAL EXPERIENCE

3eeStudio

Music Producer, Music Data Analyst

Sep 2021 - Present
Toronto, ON

- Founded a music production collective aimed at producing, marketing, and releasing content for artists with fanbases of over 1 million listeners.
- Owned and managed a collaborative artist portfolio of 50+ musical tracks that garnered over 10 million combined plays on streaming platforms, generating thousands of dollars in profit for over 5 clients.
- Collected and analyzed music industry trend data, applying data analysis and visualization to identify insights that supported production and marketing decisions; produced critically acclaimed music and generated hundreds of concert ticket sales for a country-wide tour.

Transitions Lab University Prep School

Teaching Assistant

May 2021 - Sep 2021
Cedar Rapids, IA, USA

- Developed and delivered educational modules by analyzing student feedback, achieving a high success rate in student engagement and understanding; used Excel to maintain accurate records of teaching hours and student grades.
- Spearheaded scheduling of 20+ meetings per month for faculty members, enabling successful completion of course objectives within established timelines.
- Led small-group learning activities to reinforce core concepts and help struggling learners better understand the material, resulting in a 20% increase in passing grades.

RELEVANT PROJECTS

Research Paper: "Economic Risk Calculation using Machine Learning" Led the development of a machine learning algorithm to predict economic property and crop damage caused by U.S. tornadoes; conducted a literature review of prior machine learning applications in disaster economics, identified a gap in tornado-specific predictive modeling, designed and compared multiple predictive models, and addressed significant right-skew in damage distributions through data transformation and flexible non-parametric modeling approaches.

Research Paper: "The Power of Problems" (Transitions in Global Education research journal) Collected academic performance and social demographic data on 60 students from marginalized social groups, modeled relationship between exposure to higher level mathematics and tracked their long-term performance in middle and high school, published the paper in an educational research journal under the guidance of Mr. Syam Chandra, Lead Editor, and presented the paper at prestigious mathematics conferences such as the Joint Mathematics Meeting and the Hawaii International Conference of Education.

EDUCATION

Honours Bachelor of Science (Double Major in Mathematics and Economics)

University of Toronto

Coursework: Calculus I-IV, Advanced Linear Algebra, Complex Numbers, Advanced Microeconomic & Macroeconomic Theory, Machine Learning Applications in Macroeconomic Finance, Applied Econometrics, Pure Mathematics

ADDITIONAL INFORMATION

Skills: MS Excel (Pivot Tables, VBA), R, SQL, MATLAB, Stata, Data Analysis, Machine Learning, Data Visualization, Predictive Modeling

Achievements: Victoria College Regents Admission Scholarship (University of Toronto 2021)