

# Erica M. Ryan

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## EDUCATION

### HARVARD EXTENSION SCHOOL, DISTANCE LEARNING

·Courses: Linear Algebra and Real Analysis 1

December 2019

### INDIANA UNIVERSITY, DISTANCE LEARNING

·Courses: Intro to Mathematical Proof, Differential Equations

August 2019

### UNIVERSITY OF MARYLAND, COLLEGE PARK, MD

*B.S. Economics, Magna Cum Laude; B.A. Studio Art, Magna Cum Laude, Honors*

May 2018

- GPA 3.9
- Honors: DCC Honors College, Phi Beta Kappa
- Scholarships: Maryland Delegate Scholarship 17'-18', Creative and Performing Arts Scholarship 17'-18'
- Coursework: Econometrics (with time series), Game Theory, Behavioral Economics, Labor Theory, Theory of Economic Development, Probability and Statistics, Multivariable Calculus, Intermediate Micro/Macro
- Extracurricular Involvement: Vice President of The Economics Association, Member of the Math Club, Member of the Promoting Achievement and Diversity in Economics Fellowship (PADE)

## PROFESSIONAL EXPERIENCE

### Fannie Mae, Washington, DC

*Financial Engineer, Model Risk Management*

June 2018-Present

- Reviewing and validating financial and econometric models on a team of up to five reviewers. Reviews included: evaluating component econometric models and their usages, methodologies, assumptions, and limitations; checking and running SAS/R code; and writing a final review memo for 7-10 reviews per year.
- Applying machine learning to improve upon current models in a group project for a python reading group and in a company sponsored hackathon.

### The Economics Department, College Park, MD

*Research Assistant (Part time)*

October 2016-October 2017

- Researched and cleaned the data for over 150 judges for birth and death date information.
- Ran regressions in STATA with the new datasets and provided a summary document of the results.

### NASA Goddard, Greenbelt, MD

*Intern in Safety and Mission Assurance Division, Supply Chain Management*

June 2017-August 2017

- Compiled data on approximately 150 suppliers relevant to current NASA missions.
- Created data visualizations including network diagrams and geomaps of current supply chain relationships for two NASA missions, and provided feedback for visualizations produced by the data analytics team.
- Presented a poster and power point on my data analytics contributions to over 2,500 staff and interns at a Goddard Summer Intern Poster Session and a Safety and Mission Assurance Directorate meeting.

### The FDIC, Washington, DC

*Intern in Risk Management Supervision Division (RMS)*

May 2016-August 2016

- Led a 3-person research group on Fintech including Roboadvisors, Neobanks, Big Data, and Cryptocurrency.
- Briefed the Director of RMS and other managers on Fintech with a presentation follow by a Q & A session.
- Contributed questions and answers relating to the creation of De Novo banks to the Briefing of the Chairman.
- Produced a matrix of violations by condensing approximately 80 Reports of Examination into one document.

## SKILLS

- Proficient in: SAS, R, Python, Tableau, Microsoft Excel, LaTeX, Adobe Creative Suite (Photoshop, Illustrator, Dreamweaver, Premiere, InDesign)
- Basic Knowledge of: STATA, SQL, HTML, CSS, MATLAB, Machine Learning, Spanish