

# Tiana Maria Marrese

Economist / Data Scientist

Curriculum Vitae

## INTEREST AREAS

Organizational Economics

Community Nonprofits

Volunteerism

## SKILLS

**Statistics** R, SAS

**Programming** Python

**Databases** SQL


## ACCOLADES


**Dean's List** Spring 2017


Fall 2018


**High Honors** Spring 2018

## CONTACT

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## SUMMARY

Mathematician and economist with a strong background in statistics and operations research. A creative and strategic worker with a talent for innovative ideas derived from knowledge in micro-level data and behavioral sciences. Skilled in collaboration and leadership with a love for solving complex problems. Passionate about scholarship and analyzing social issues.

## EDUCATION

2019–Present **Humboldt-Universität zu Berlin** 3.75 GPA  
Master of Science, Economics and Management Science  
Berlin, Germany

2014–2018 **Carnegie Mellon University** 3.42 GPA  
Bachelor of Science, Mathematics  
Concentration: Operations Research and Statistics  
Pittsburgh, Pennsylvania

2016 **Jacobs University** Study Abroad  
Bremen, Germany

## WORK EXPERIENCE

2019–Present **Research Assistant**  
Humboldt-Universität zu Berlin, Part Time

- Provided ten hours of weekly research support to Professor Danilov in organizational economics
- Performed literary compilation and data analysis for various projects in personnel and behavioral economics

2018–2019 **Financial Engineer**  
Fannie Mae, Full Time

- Ran monthly and quarterly models that projected loan profile performance for Fannie Mae's book of business
- Developed new software applications to increase efficiency and accuracy of model output
- Organized weekly training sessions that facilitated skill diversity and development among team members

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## PROJECTS

### Hash Validation of Input Files

- Curated code in Python and R to assist in the compilation and validation of variables used in Fannie Mae's loan model
- Increased the accuracy and decreased the run time of the initial steps in Credit Forecasting reporting for monthly and quarterly production

### PageRank of March Madness

- Utilized Google's PageRank algorithm to develop methods to generate guesses of sport team performances and final rankings
- Wrote R code with the intention of predicting the perfect bracket for March Madness

## EXPERTISE

Project Management

Team Building

Public Speaking

## WORK EXPERIENCE (cont.)

2017–2018

### Community Advisor

Carnegie Mellon University, Part Time

- Led a team of five Resident Assistants with the goal of providing personal support and guidance to over 200 Carnegie Mellon first-year dorm residents
- Dedicated thirty hours a week to running meetings and programs that reverberated values of the university and catalyzed growth in the students
- Effectively carried out logistical aspects of the job including emailing, scheduling, and budgeting

2015–2017

### Resident Assistant

Carnegie Mellon University, Part Time

- Spent twenty hours a week mentoring thirty residents and aided in their acclimation to higher education

## LEADERSHIP

2014–Present

### Pennsylvania Association of Student Councils (PASC)

Pennsylvania, USA

- Helped plan and execute a weeklong summer workshop for middle school delegates in the areas of leadership and student activism

## VOLUNTEERING

2020–Present

### English Tutor, Barista

Refugio; Berlin

- Met with high school refugees on a weekly basis to bolster their understanding of English
- Volunteered for sixteen hours a month in a nonprofit café supported through Berlin resettlement funding

2018–2019

### Math Tutor

For the Love of Children; District of Columbia

- Provided weekly, one-on-one tutoring to help students achieve grade-level competency in math

2016–2018

### Reading Buddy

Carnegie Library; Pittsburgh

- Engaged with young library visitors to improve literacy and instill a sense of community