

# Andrew (André) Zazzera

[GitHub](#) | [LinkedIn](#) | [Website](#)

## Education

**University of Virginia:** School of Data Science

July 2020-May 2021

- Master of Science, [Data Science](#)
- GPA: 4.000
- Relevant Coursework: Bayesian Machine Learning, Deep Learning, Big Data Analytics, Data Mining.

**University of Virginia:** Echols Scholar, College of Arts & Sciences

August 2016-May 2020

- Bachelor of Arts, Mathematics ([Graduate Preparatory Concentration](#)) and [History](#)
- GPA: 3.497
- Relevant Coursework: Advanced Linear Algebra, Algebraic Combinatorics.

## Skills

**Languages:** Native fluency in French, ACTFL Advanced Proficiency in Mandarin Chinese

**Programming Languages:** Python 3, R, SQL, SageMath, HTML

**Data Science/Machine Learning Libraries:** Pandas, NumPy, SciPy, TensorFlow, Keras, Spark, Plotly, Tidyverse

**Administrative Tools:** LaTeX, Git, Microsoft Office Suite, Google Suite, Trello

## Recent Experience

**Planet Formation Emulation:** UVA MSDS & UVA Astronomy

August 2020-May 2021

- Repository: <https://github.com/andrezazz/dust-in-the-machine>
- Using random forest decision tree regressors and mixture density deep neural networks to efficiently predict distributions of particles.
- Managing team of 3 collaborators with SCRUM agile methodology for yearlong original research, with twice weekly meetings with sponsors.

**Big Data for Vaccine Predictions:** UVA MSDS

Spring 2021

- Working with nearly 8 MB dataset on vaccine reactions from CDC and FDA.
- Using Spark to build a data pipeline and for developing models to predict what sort of adverse reactions can be expected from different COVID-19 vaccines.

**Text Analytics Hackathon:** UVA MSDS & Save the Children

October 2020

- Repository: <https://github.com/andrezazz/save-children-20>
- Hackathon project to web scrape news from several APIs and perform exploratory text analysis, including topic modelling and Latent Dirichlet Analysis, for refugee crises.

**UVA Math Graduate Grader**

Fall 2020

- Reference: Prof. Jennifer Morse [REDACTED]
- Graded and provided detailed feedback on 2 sections of 50 students' assignments for MATH 3351 Elementary Linear Algebra.

**UVA Math Collaborative Learning Center Consultant**

Fall 2018-present

- References: Prof. Paul Bourdon [REDACTED] Prof. Evangelos Dimou [REDACTED]
- Official UVA Math tutor for single- and multi-variate calculus, linear algebra, abstract algebra, real analysis, and probability theory, working with anywhere from 3 to 15 students at a time.

**Senior SAT Tutor at Legal Outreach, Inc.**

Summer 2019

- Reference: Dan Bautista [REDACTED]
- Led a 5-week math curriculum to a group of over 15 high school juniors.
- Received additional training from Princeton Review to teach test-taking strategies to students and to 7 other tutors.