Riley M. Rudd

riley.rudd1@gmail.com (804)-869-7833 www.linkedin.com/in/riley-rudd-1166a3192

R Programming | Java | Python | HTML/CSS/JavaScript | Google Earth Engine | GitHub | Google Ads | 6Sense Certified Digital Marketing, *HubSpot Academy* | Certified Inbound Marketing, *HubSpot Academy*

[Education]

Master of Engineering in Computer Science - Data Analytics & AI

December 2024

Virginia Tech, Blacksburg, VA

- Relevant Coursework: Software Design and Data Structures, Intermediate Data Structures and Algorithm Analysis, Information Visualization, Machine Learning I

Bachelor of Arts in Economics

Virginia Tech, Blacksburg, VA

- Cumulative GPA: 3.82
- Relevant Coursework: Analysis of Economic Data, Business Calculus, R Programming in Economics

Bachelor of Science in Consumer Studies - Financial Services & Counseling

Virginia Tech, Blacksburg, VA

- Cumulative GPA: 3.82
- Class of 2023 Outstanding Senior

[Relevant Professional Experience]

TriMech Solutions, Richmond, Virginia

April 2021 – Present

Marketing Specialist

- Achieve quarterly lead generation goals using inbound and outbound marketing tactics such as search engine optimization, social media, A/B testing, online advertising, email marketing and more.
- Capture and report key marketing metrics and optimize campaigns on an ongoing basis.
- Completes website updates including link building, site optimization, landing page development.
- Develops and executes digital marketing strategies including Google Ads campaigns, emails, SEO/SEM.
- Writes on technical topics including client case studies, producing 8+ publications per quarter.
- Participates in volunteer Social Pod Committee ideating and executing employee engagement campaigns, both in philanthropic and professional development areas.
- Awarded 2023 Impact Player President's Club.

Reassessing Drought Indicators for U.S. Crop Insurance Program

August 2022 – December 2022

Research Assistant

- Extracted weather data from multiple remotely sensed datasets using Google Earth Engine and Python, and utilizes R programming to analyze data and inform government decisions.
- Conducted statistical analysis in R to evaluate differences in indices and implications to payout functions.
- Analyzed data for implications to insurance payout functions, translating findings into recommendations for government decisions.
- Extracted weather data from multiple remotely sensed datasets using Google Earth Engine and Python, utilized R programming to analyze data and inform government decisions.
- Conducted statistical analysis in R to evaluate differences in indices and implications to payout functions.
- Wrote synthesis reports on research findings, including creating graphics to compare datasets.
- Presented research findings to stakeholders both visually and orally.

Data Science for the Public Good, Blacksburg, Virginia

June 2022 - August 2022

- Utilized computer software and R programming to analyze data on weather anomalies and aggregate welfare to inform financial donor decisions.
- Created visual and oral presentations for three stakeholder meetings with The World Bank, translating research findings into understandable, actionable objectives.
- Developed R-shiny webapp to translate research findings with interactive maps and statistical analyses.
- Extracted weather data from Google Earth Engine using Python & household welfare data in R from World Bank surveys
- Conducted linear statistical analysis in R to assess relationships among and between variables.
- Generated and presented research poster and interactive website to synthesize analysis and outputs.

[Leadership Positions and Publications]

Back, C., Benami, E., Chen, S., Gupta, M., Poghosyan, A., Rudd, R., & Tajanpure, P., (2022). Sensing Drought in the Sahel for household resilience. University of Virginia Biocomplexity Institute. https://dspgtools.shinyapps.io/sensing-drought/

Back, C., Gupta, M., & Rudd, R. Sensing drought in the Sahel for Household Climate Resilience. 2022 Summer Undergraduate Research Conference, Virginia Tech; July 2022

https://www.research.undergraduate.vt.edu/content/dam/research_undergraduate_vt_edu/pdf/2 022-Summer-Abstract-Book.pd

Virginia Tech Consumer Studies Organization

December 2021 - Present

Founder and President

- Organizes monthly meetings including guest speakers, career building exercises, and study sessions.