



DANIEL TSHIANI

Founder, DGT International

Washington, DC

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EDUCATION

American University, Washington, DC

Master of Science in Data Science & Computer Science

May 2026

Overall GPA: 3.9

Relevant coursework: Statistical Methods, Political Analysis, Economic Theory, Statistical Programming in R

Loyola University Maryland, Baltimore, MD

Bachelor of Arts in Quantitative Economics; Minor: Mathematics

December 2022

Major GPA: 3.5

Relevant coursework: Economics, Statistics, Econometrics, Combinatorics, Linear Algebra, Game Theory

Montgomery College, Rockville, MD

Associate of Science in Mathematics

December 2020

Major GPA: 3.9 with honors

Relevant coursework: Economics, Statistics, Multivariable Calculus, Differential Equations

Athn  e Royal Thomas Edison Mouscron, Mouscron, Belgium

May 2017

SKILLS

- Python
- R Studio
- Stata
- SPSS
- ArcGIS
- Tableau
- Excel
- Microsoft Office

LANGUAGES

- English - Fluent
- French - Fluent
- Dutch - Beginner

PROFESSIONAL EXPERIENCE

Founder

DGT International | August 2024 – Present | Washington, DC

- Established a consultancy that leverages data science and computer science to support international and domestic development initiatives focusing on poverty alleviation.
- Lead data-driven projects integrating advanced analytics, machine learning, and technology solutions to address complex development challenges.
- Provide expertise in project evaluation, process automation, and tool development, aiming to drive sustainable impact in underserved communities.

Data Scientist

American Institute of Research | July 2024 – Present | Washington, DC

- Developed web scraping Python scripts that automated web browsing and performed keyword frequency analysis
- Supported an anticipatory action proposal to sustain education during the flooding moonrise in Pakistan and Somalia. The proposal focused on ensuring continuity and safety in education services during disasters. My roles included
 - Flood Risk Mapping and Data Visualization: Developed riverine flooding maps using geographic data to identify high-risk, flood-prone areas, highlighting danger zones and flood severity. These visuals provided a clear basis for prioritizing educational interventions and planning targeted actions.
 - Support for proposal development: contributed to the proposal, emphasizing proactive educational support measures in flood-affected zones.

Teachers Assistant

American University | Jan 2024 – Present | Washington, DC

- Provided one-on-one and small group tutoring to students, clarifying complex statistical topics and problem-solving techniques.

Research Assistant

KNG Health Consulting, LLC | April 2023 – July 2024 | North Bethesda, MD

- Generated County-level U.S. map indicating the reliance of Hospital Outpatient Departments among Medicare Beneficiaries for the American Hospital Association
- Utilized Stata to conduct descriptive statistics techniques to analyze the utilization patterns of CPT code 92523 (Evaluation of speech sound production with evaluation of language comprehension and expression).
- Delivered an Excel workbook consisting of the description of the data, methods of analysis, and a series of tables to the American Speech-Language-Hearing Association
- Assigned as Project manager: Acted as the primary point of contact between KNG Health and various clients; Drafted and revised project plans for new technology add-on payments projects; participated in quality assurance process, ensuring deadlines were met, verifying the team was using correct material for analysis, and producing deliverables
- Working on developing and implementing a structured program to educate staff on data visualization techniques using Tableau and literature review methods using Research Rabbit

Research Assistant

Loyola University Maryland | August 2022 – December 2022 | Baltimore, MD

- Conducted an in-depth mix-method analysis on discrimination in the wealth management industry
- Employed natural language processing techniques on emails from financial advisors to create a primary dataset
- Cleaned data and utilized inferential statistics techniques in Stata to develop predictive models
- Wrote a two-page paper to present findings to the Economics department

Intern

Library of Congress | May 2019 – August 2019 | Washington, DC

- Completed qualitative research for the book “Flowers, Guns, and Money: Joel Robert Poinsett and the Paradoxes of American Patriotism” (published 2023) and assisted the author in delivering a final presentation to Kluge fellows

PROJECTS

Citizens Math Evaluation, American Institute for Research (Subcontractor under WestEd) 2024

Funded by the U.S. Department of Education, I focused on understanding the integration of Citizen Math lessons into middle school student performance. My role in this project included

- Data acquisition: Actively engaged with school districts and individual schools to obtain data and maintained consistent communication to clarify data requirements and ensure accurate, complete information.
- Data quality checks and cleaning: Conducted initial quality checks upon receiving data and contacted data sources for verification or updates as needed. Performed comprehensive cleaning and transformation of datasets to prepare for analysis.
- Statistical analyses: Analyzed datasets to evaluate the relationship between Citizen Math Lessons and changes in student math performance.
- Reporting and insights: Drafted insights in written reports emphasizing how lesson integration influenced math proficiency

Le Projet d'Appui à la Scolarisation des Filles Affectées par le Conflit au Mali, American Institute for Research 2024

I contributed to an evolutionary evaluation of the conditional cash transfer (CVT) component of the PASCOFI project to assess the impact of cash transfers on girls' schooling in Mali. Implemented by WUSC and funded by Global Affairs Canada. My role included:

- Conducting data analysis to assess the effectiveness of cash transfers and gender-responsive education strategies in conflict-affected areas
- Tracking key indicators of student performance, attitudes toward gender norms, and consumption trends to evaluate educational outcomes and the impact of conditional cash transfers on vulnerable students.
- Engaging in all aspects of the project in French, including client meetings, note-taking, drafting inception reports, and designing classroom observation and survey tools.

Strengthening Teacher Professional Development for Multilingual Foundational Learning at Scale in Cote d'Ivoire, Democratic Republic of Congo, and Senegal, American Institute for Research Partnership with Dalberg 2024

Generated insights on the impact of the Foundational Learning Improvement Package (FLIP)—an innovative teacher training approach—to enable well-established stakeholder networks in West and Central Africa to develop locally owned, scalable, and practical models for Teacher Professional Development and produce public goods adaptable to other multilingual contexts. My roles included:

- Leading the Institutional Review Board (IRB) review process, ensuring compliance with ethical standards.
- Managing data governance, overseeing data handling and protection protocols.
- Drafting language for consent and assent forms to ensure clear communication and participant understanding.
- Conducting comprehensive literature reviews to support project design and contextual relevance.
- Designing observational tools and language mapping surveys to support data collection and analysis

PUBLICATIONS

Tshiani, D.G. (2024). Economic Diversification's Impact on the Resource Curse Hypothesis in the Democratic Republic of Congo. DGT-International.

Tshiani, D.G., & Cintina, I, & Koenig, L. (2024). Growth in Special Needs Plans Outpaces that of Medicare Advantage, Particularly in the South. KNG Health Consulting.