

# Abdel An'lah Tidjani

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## Education

### African School of Economics

MSc in Mathematics Economics and Statistics

Arconville Calavi, Benin

Jul 2023

- **Courses:** Micro I & II, Macro, Political Economy, Development Economy, Data Analyses, Finance, Econometrics I & II

### National School of Applied Economics and Management

Bachelor of Science in Statistics

Cotonou, Benin

Jan 2019

- Minor: Demography

## Workshops & Training

### Political regimes: Developments, Typologies and Consequences

Peace Research Institute Oslo (PRIO)

Oslo, Norway

5-7 Jun 2023

- Prepare us to conceptualizing different regime types, to identify important characteristics of political dynamics within them, and understanding the impact of regime design on human welfare.
- Precise measurement and how different measurement strategies have downstream effects on conclusions to important research questions, such as causes of regime change or economic consequences of regimes dynamics

### AI Programming with Python Nanodegree

Udacity, AWS AI & ML Scholarship Program

Online

Nov 2022 - Feb 2023

- Covers foundations for building a neural network, introduction to Python and its libraries (Anaconda, Jupyter, NumPy, Pandas, and Matplotlib), linear algebra and calculus essentials.
- Project: Use a Pre-trained Image Classifier to Identify Dog Breeds and Creating one's own image classifier.

### QuantEcon Summer Course in Quantitative Economics

QuantEcon, ASE & ENSEA and funded by Amazon (AWS).

Arconville Calavi, Benin

11-22 Jul 2022 | 3-15 Jul 2023

- Two-week workshop led by Nobel Prize winner Thomas Sargent.
- Covered linear algebra, optimization, introductory Python, high-performance computing, and macroeconomic applications.

### Applied Data Science Lab

Worldquant University

Online

Apr 2022 - present

- Focuses on tackling real-world data science problems through a series of end-to-end projects, including Predicting apartment prices in Buenos Aires, Argentina, - Determining air quality in Nairobi, Kenya, - Assessing building damage following the 2018 earthquake in Nepal, - Bankruptcy in Poland, and -Customer segmentation in the US.

### Experimental and Quasi-Experimental methods Workshops

African School of Economics

Arconville Calavi, Benin

17 May 2021 - 19 May 2021

- Covered causal inference, gender analysis, experimental and quasi-experimental analysis, and survey data management and analysis.
- Presented a common project on "Reducing violence by creating more inclusive economic opportunities for youth".

## Skills

### Programming

Python (Pandas, PyTorch, NumPy, Scikit-learn, Plotly. etc.), R(ggplot2, Tidyverse, caret), CSS, SQL.

### Miscellaneous

Dash App, Shell (Bash),  $\LaTeX$ (textstudio /R Markdown/ Quarto), HTML(R Markdown/ Quarto), Tableau, Microsoft Office, Git.

### Soft Skills

Time Management, Communication, Teamwork, Problem-solving, Documentation, Engaging Presentation.

## Projects

### Customers Churn Dashboard

Dash Holiday Challenge | Plotly Dash App

Online

Dec 2022 - Jan 2023

- The app won first place
- Created a customer segmentation data app to better understand consumer behavior.
- Provided insight on the relationship between churn and customer characteristics.
- **Technical Skills:** Dash, plotly, Pandas, Data analysis, Machine learning, Prediction, Optimisation, Classification model.
- **Soft Skills:** Report writing, Logical Thinking, Critical Thinking, Challenge.
- **Github Repo:** <https://github.com/AbdelTID/Holiday-Plotly-Dash-Challenge>

## Pre-trained Image Classifier to Identify Dog Breeds

Online

AI Programming with Python Nanodegree | Udacity

Nov 2022 - Dec 2022

- Identified which pet images were of dogs and which weren't, and classified the breeds of dogs for the images that were of dogs.
- **Technical Skills:** Python with Pandas, matplotlib, Seaborn.
- **Github Repo:** <https://github.com/AbdelTID/Pre-trained-Image-Classifier-to-Identify-Dog-Breeds>

## Political & Conflict Events in Ghana

Arconville Calavi, Benin

Political Economy | African School of Economics

Nov 2021 - Dec 2021

- Analyzed data from 1997 to 2020 to identify patterns and trends of conflict in Ghana using QGIS, Python, and R.
- Developed an interesting research question based on the patterns found and wrote a research proposal.
- **Technical Skills:** Python with Pandas, matplotlib, Seaborn, R, QGIS, LaTeX.
- **Soft Skills:** Logical Thinking, Critical Thinking, Time Management, Teamwork, Presentation skills, Report writing.
- **Github Repo:** <https://github.com/AbdelTID/Armed-Conflict-Event>

## RA, Teaching & Mentoring Experience

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### Research Assistant

Arconville Calavi, Benin

Political Economy | African School of Economics

Dec 2022 - present

- *Supervisor* : Ian Heffernan
- **Project 1:** Investigate the *parasite stress* hypothesis in Benin after pandemic crisis of COVID-19
- **Project 2:** test how National Identity and Altruism factors affect agreement with COVID-19 containment policy in Benin.
- Computed key measure variables, creating visualizations, conducting data analysis, running econometric models, testing hypotheses

### Teaching Assistant

Arconville Calavi, Benin

Political Economy | African School of Economics

Nov 2022 - Dec 2022

- Assisted MMES II students with their projects on "Political and conflict events" using ACLED data.
- Provided training in Python, R, and QGIS for data analysis and visualization, shared additional resources and guidance as needed.
- Encouraged creativity and problem-solving and created opportunities for independent students-led work.

### Group Leader

Arconville Calavi, Benin

QuantEcon Workshops | African School of Economics

11 Jul 2022 - 22 Jul 2022

- Planned day-to-day schedules and assignments, led discussion sections, and provided additional explanations on topics covered.

## Professional Experience

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### Ministry of Health

Cotonou, Benin

Statistician Intern

Jan 2019 - May 2019

- Collaborated with the senior manager to calculate performance indicators for the Ministry and helped finalize the SARA 2018 report.
- **Technical Skills:** Excel, Powerpoint
- **Soft Skills:** Teamwork, Time Management, Communication, Presentation skills.

## Honors & Awards

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2022 **Pre Doctoral Programs**, African School of Economics

Benin

2022 **AWS AI & ML Scholarship Program**, Udacity

Online

2020 **World Bank Scholarship**, African School of Economics

Benin

## Languages

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**English** Professional proficiency

**French** Native proficiency