As of May 27, 2025

**Applied Economics Website Ideas 2025**

(note: This document is a modification of a version set up for Data Science - the website names will, of course, change!)

Points of Contact

AE: Joann Weiner [jmweiner@gwu.edu](mailto:jmweiner@gwu.edu)

DS: Tyler Wallett [twallett@email.gwu.edu](mailto:twallett@email.gwu.edu) (Samson 310)

GENERAL WEBSITE:

[dats.columbian.gwu.edu](http://dats.columbian.gwu.edu)

1. *Information for new Applied Economics graduate students*

AE website > Student Resources` ideas:

* Installing Github and (see DS webpage)
* Overleaf Setup (Where and How to Write a Research Paper)
* Latex
* Zotero (formatting references)
* American Economic Review - JEL codes, formatting styles
* Library and Academic Innovations (<https://library.gwu.edu/program-and-code>)
* How to find data (link to databases)
* Software (<https://it.gwu.edu/explore-tools-services#tools-tab-2-name>) (which programs to install)
* Subscribing to online newspapers (Wash Post, NY Times, WSJ)
* DataCamp

1. *Data Lab and CCAS Research Showcase*

AE website: World Bank Data Lab

* World Bank Guidelines (Expectations, Best Practices, Template)
* World Bank Projects (List of projects to display for students along with descriptions and topics)
* World Bank presentations (link to Github)
* CCAS Research Showcase (Logistics, posters)

1. *Potential Data Science applications*

AE website > Cloud Computing` ideas: (We probably don’t need this section for AE)

* GPU Requirements (What GPU do I actually need for my project?)
* AWS Setup (Where and How to create, run and stop a GPU instance)
* GCP Setup (Where and How to create, run and stop a GPU instance)
* Google Colab Setup (Where and How to create, run and stop a GPU instance)
* GWU Ronin (Where and How to create, run and stop a GPU instance)

1. *Programming Resources*

[dats.columbian.gwu.edu/programming](http://dats.columbian.gwu.edu/programming)

`DS Programming website`:

* Virtual Environment Setup (Requirements.txt, Conda - Windows/Mac)
* Debugger (How to debug code in Python)
* R Basics (Data Types, Variables, Data Structures)
* R Intermediate (Basic Functions, Importing/Exporting Data, Data Visualization)
* R Advanced (Data Manipulation, Data Preprocessing, Basic Statistical Tests)
* Interview Questions (R related)
* Python
* Stata
* Using AI
* Data visualization
* Tableau

1. *Academic and course resources*

[dats.columbian.gwu.edu/math](http://dats.columbian.gwu.edu/math)

`DS Math website`:

* Probability and Statistics
* Math for Economists
* Econometrics
* Time Series
* Machine Learning for Economists
  + machine learning models: k-nearest neighbor methods, support vector machines, regression trees, random forests, and XGBoost, etc.

1. References

* Mullainathan, Sendhil, and Jann Spiess. 2017. "Machine Learning: An Applied Econometric Approach." *Journal of Economic Perspectives*, 31 (2): 87-106.