Christopher Barclay

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Education

Master of Arts – May 2024 (expected) – American University, School of International Service
Area: United States Foreign Policy and National Security (USFPNS)
Focus: Cyber Security
Courses: Data Analysis, Int. Affairs Statistics & Methods, International Economics
GPA: 3.91

Bachelor of Arts – May 2022 – Reed College
Major: Political Science
Minor: Russian Language
Thesis: Assessing Institutional Complications in the U.S. Government Assessment and Response to Russian Government Active Measures in the 2016 U.S. Presidential Election
GPA: 3.50
– President's Commendation Award (top 10% of student body), 2020 & 2021
– Presentations: Contemporary Influence Operations

Critical Language Scholar – Summer 2021 – U.S. Department of State
Subject: Russian Language – Completed ACTFL Oral Proficiency of "Intermediate-High"

Data Analysis Coursework

SIS-750-007 Data Analysis– Jan 2024 to Present – Washington, DC
Completed Modules:
- Cleaning and munging publicly available datasets from the ITU, World Bank, and the APSA, including producing a professional dataset deliverable for Latinobarometro-2018 data
- Developing R Markdown *Beamer* presentation and *Betterland* poster featuring curated and themed *ggplot2* data visualizations to effectively communicate insights
- Performing multivariate regression on global telecommunications investment data, using *felm* to account for multiple group fixed effects (i.e., country-level historical contexts)
- Merging, pivoting, and subsetting wordle data to list highest and lowest scoring words
- Using the *summarise*, *count*, *filter*, *select*, *mutate*, and *if_else* functions to manipulate data
- Employing version control (GitHub) for managing individual and larger collaborative projects
- Writing clear, efficient, and reproducible code in R Markdown documents

SIS-600-005: Int. Affairs Statistics & Methods– Jan 2023 to May 2023 – Washington, DC
Completed Modules:
- Building, cleaning, and wrangling STATA datasets and codebooks
- Using *describe*, *summarize detail*, *tabulate*, *histogram/graph box/graph two-way scatter* to find descriptive statistics, visualize variation, and perform introductory analysis
- Using *pwcorr*, *reg*, and *outreg2*, to find Pearson's r correlation and create professional OLS regression models to test hypotheses
- Creating professional cross-tabulations and regression graphs with *tab2* and *outreg2*

MATH 141: Intro to Probability & Statistics– Jan 2020 to May 2020 – Portland, OR
Completed Modules:
- Using RStudio to perform statistical analysis in R on quantitative data and modeling to evaluate, test, or prove statements
- Formulating a hypothesis, designing an experiment, collecting data, and using mathematical reasoning to test it
- Calculating 1- and 2-sample t-tests and confidence intervals, chi-square tests, and simple linear regression models to assess probability

Projects

Data Analysis Project: "Investigating the Relationship between Financial Metrics and AI Patents in U.S. Companies using Multivariate Regression in STATA" – Jan 2023 to Present – Washington, DC
  Activities Include:
  - Designing and conducting independent research on AI innovation among 217 U.S. AI companies using cutting-edge data from CSET's PARAT dataset and financial data from Pitchbook and Mergent Online
  - Performing a multivariate regression analysis in STATA to determine which metrics correlate with higher AI patents, AI publications, and AI publications in top conferences
  - [In progress] Producing literature review of the U.S. AI innovation landscape with implications for U.S. strategy as outlined in the 2023 Cybersecurity Strategy

Professional Experience

VSFS Intern– Aug. 2023 to Present – U.S. Department of State– Washington, DC
  Responsibilities included:
  - Producing timely, data-driven research deliverables on topics related to economics, international affairs, science and technology, and national security for the U.S. Department of State's Office of the Science and Technology Adviser to the Secretary of State (STAS)
  - Conducting in-depth research and analysis of emerging technology market trends and innovation ecosystems worldwide to provide insights for policymakers
  - Drafting high-quality deliverables (memos, reports, briefings, presentations) for STAS advisors, regional technology officers, and other State Department officials

Practicum Consultant – Aug. 2023 to Dec. 2023 – U.S. Mission to NATO – Washington, DC
  Responsibilities included:
  - Collaborating as a student consultant in supporting the United States Mission to NATO's Deputy Defense Advisor in developing alternative strategies for the Alliance
  - Conducting financial analysis across EDT areas among IP4 countries using Pitchbook data
  - Leading research efforts for the Indo-Pacific Partners team, overseeing project management, task delegation, logistics, client outreach, and research synthesis and refinement
  - Producing a comprehensive 70-page, single-spaced, data-driven report outlining key issues and recommendations for the client

Graduate Student Council Treasurer – Aug. 2023 to May 2024 – Reed College – Portland, OR
  Responsibilities included:
  - Representing 600 graduate students at American University on matters of student finance
  - Managing operating budget of $17K/AY
  - Processing purchase requests for all GSC organizations and consolidating the annual budget
  - Using Excel to track purchase requests and budget, find accrual, residual, and percentage changes from prior budget, and produce basic pie graphs of allocation
  - Assisting the Events Director with venue and catering contracts for a 250-person Spring Gala

Cyber Program Intern – June 2023 to Aug. 2023 – Cyber Program at The Stimson Center – Washington, DC
  Responsibilities included:
  - Producing time-sensitive research deliverables for Stimson's Cyber Accountability Program
  - Conducting analytical research on contemporary challenges to implementing international cyber norms, cyber cooperation through the Wassenaar Arrangement and similar international export control regimes, and the global status of coordinated vulnerability disclosure
  - Briefing colleagues on independent research regarding why the UN's International Telecommunication Union did not end up becoming the primary body for regulating ICTs in the context of international security

Conferences

Technology Governance Policy Challenge – April 2024 – Waterloo, Canada
Activities Included:
- Leading a team to compete in AU/BSIA's inaugural Tech. Gov. Policy Challenge
- Presenting concrete policy recommendations for countering an electoral disinformation campaign to a panel of distinguished Canadian national security officials
- Attending lectures from leading experts in countering electoral interference

TLS Symposium 2023 – Sept. 2023 – Washington, DC
Activities Included:
- Attending numerous panel discussions, such as:
  - Russia-Ukraine: The Cyber Dimensions
  - Cyber "Attack" – Toward Greater Precision
  - Accountability for Cyber War Crimes
  - Cyber and the Role of Private Actors
  - Cyber Spill Over
  - Regional Perspectives
- Engaging in informal professional discussions on topics such as NATO innovation, cyber accountability, and international cybersecurity law with policy, defense, and legal experts

DEFCON29 – Aug. 2021 – Las Vegas, NV
Activities Included:
- Attending numerous panel discussions, such as:
  - "Hacking Humans with AI as a Service"
  - "Defending Against A Nation-State (legal) Attack: How to Build a Privacy-Protecting Service in the Era of Ubiquitous Surveillance"
  - "Hackers Into The UN? Engaging in the Cyber Discussions on War and Peace"
- Participating in villages such as the Voting Machine Hacking Village, Crypto & Privacy Village, and the Password Village
- Engaging in informal professional discussions on topics such as cybersecurity, domestic and international tech policy, and voting machine integrity with technology and information security experts

Skills

Language Proficiencies: Russian (intermediate-high), Spanish (beginner-high)
Research: Zotero, Research Methodology, Literature Review, Drafting, Presentation
Microsoft 365 (Word, Excel, PowerPoint, Outlook, OneDrive, OneNote, Teams)
Google Workspace (Gmail, Calendar, Drive, Docs, Meet, Sheets, Slides)