

Ryogo Yamamoto

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EDUCATION

Northwestern University

Anticipated Jun. 2028

Declared Major: *Political Science*; Prospective Major: *Economics, Mathematics*

Relevant Courses: R Programming, Linear Algebra, Microeconomics, International Political Economy, Comparative Politics

Shanghai High School International Division (SHSID)

Sep. 2020 – Jul. 2024

Certifications: *High School Diploma, IB Bilingual Diploma, TOEFL 117, SAT 1570*

Relevant Courses: Calculus, Probability, Macroeconomics, History (World, Americas), Python

ACADEMIC AND RESEARCH EXPERIENCES

IB Mathematics Analysis and Approaches, *Monopoly Game Stochastic Analysis*

Oct. 2023 – Feb. 2024

- Designed Monte Carlo stochastic analysis to investigate the probability of grid visit frequency in adjusted Monopoly game
- Calculated Bayesian probability and matrix multiplications through Excel to simulate large-number stochastic processes
- Synthesized unique game strategy for this game, extended to similar round-trip board games

IB Biology, *Coffee-Cancer Correlational Analysis*

Sep. 2023 – Mar. 2024

- Conducted Pearson correlation analysis to investigate potential non-melanoma skin cancer connection with coffee intake
- Modeled online data released by WHO and NGO databases into Microsoft Excel tables and Power BI Desktop charts
- Examined biological and parametric settings of observational analysis, and implications to Fisher's z-value test results

Independent, *East Asian International Relations during Imjin War*

Jan. 2023 – Apr. 2023

- Produced 6,800-word essay on the causes of the Imjin War (1592-1598) and East Asian international relations history
- Analyzed Korean, Japanese, Chinese and Western sources to supplement current language gap between scholars
- Investigated some stereotypical claims of the event to advocate for the de-nationalization of historical narratives

Pioneer Academics, *Online Advertisement Linguistic Register Analysis*

Jul. 2023 – Sep. 2023

- Instructed by Prof. Asif Agha (Univ. of Pennsylvania) to write 5,600-word essay on Chinese advertisement registers
- Analyzed semantic patterns for advertisements by observing primary Chinese sources exclusive on the RED application
- Expanded understanding of emoji usage in online communication, ranked top 5% paper for Pioneer 2023 Summer Session

WORK AND CASE EXPERIENCES

Sales Operations Intern, *Hippie Music*

Jul. 2024 – Aug. 2024

- Advertised and managed the logistics of selling music instruments for total accounting profit of more than 60,000 RMB
- Publicized promotional video on public relations account to improve brand image and increase competitiveness
- Moderated retailing process for more than 1,000 customers in collaboration with other employees

Leader, Writer, Presenter, *National Economics Challenge*

Feb. 2023 – Mar. 2023

- Presented group policy recommendations on electric vehicle promotions in third-world countries, produced case report
- Modeled behavioral economics approach to promotions and advised governmental policies
- Delivered and defended report to panel of judges, received first place in case challenge

Coordinator, Researcher, Writer, *High School Mathematical Contest in Modeling*

Oct. 2022 – Nov. 2022

- Predicted carbon dioxide concentration trend using cumulative, raw data set from Mauna Loa Observatory, 1959-2021
- Extrapolated through specialized exponential smoothing and discrete Fourier transform, received finalist award
- Modified existing predictions on carbon dioxide increase to call for more awareness on the climate crisis

ORGANIZATIONAL EXPERIENCES

Editor, *World Affairs Group*

Oct. 2024 – Present

- Edited articles for new and experienced writers as team member for school's premier organization in international affairs
- Provided consulting to writers to develop appropriate writing style and better represent their contents
- Enhanced promotion of student-generated content on key international affairs to public in raising attention

Event Coordinator, *SHSID Associative Student's Body*

Sep. 2021 – Jun. 2024

- Planned and arranged cultural, sports, social, recreational, and other events to ensure superior high school experience
- Directed organization and club advertisement by creating and maintaining the school's website and social media
- Organized 25+ events with 20,000+ attendees to raise more than 280,000 RMB total revenue

SKILLS

Languages: Chinese (*Native*), English (*Fluent*), Japanese (*Fluent*)

Instruments: Electric guitar, Piano

Computer: LaTeX, Microsoft Office (*Proficient*), Power BI, Python, R (*Basic*), Mathematica, C++, SQL (*Beginner*)