

Alison Sousa

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Education

Development Bank of Latin America and the Caribbean 2024
Professional Development Program in Econometrics and Mathematics

Escola Superior de Propaganda e Marketing (ESPM) 2024
B.A. in International Relations
Thesis: Semiconductors (with Honorable Mention)
Advisor: José Luiz Pimenta Junior
Academic Programs: Zuyd University (Netherlands), Meiji University (Japan)

Publications and Working Papers

Sousa, A. & Maia, J. (2025). *Phase Transitions and Uniqueness of the Gibbs Measure in Ising Models with Variable Magnetic Field: Extension to Long-Range Interactions*. Working Paper.

Sousa, A. & Cintra, R. (2024). *Western Relationship, China and Taiwan: An Econometric Approach to Assess Tensions*. Working Paper.

Sousa, A. & Uehara, A. (2023). *Triangular Relations under Xi Jinping: A Foreign Policy Perspective*. Scientific Research Paper.

Sousa, A. & Gondim, I. (2022). *International Diversification via ETFs: A Sharpe Ratio Perspective*. 33rd ENANGRAD.

Sousa, A., Uehara, A., & Kim, H. (2022). *US–Taiwan–China Relations at the Onset of the Biden Administration*. Mapa Mundi, Research Brief.

Sousa, A., Uehara, A., & Kim, H. (2022). *Why Invest Your Money in J-REITs in Japan?*. Mapa Mundi, Finance Brief.

Sousa, A., Uehara, A., & Kim, H. (2021). *It is worth Brazilians to invest in ETFs in South Korea?* Mapa Mundi, Finance Brief.

Research Experience

Beijing International Center for Mathematical Research 2025
Research Assistant — Supervisor: João Maia

International Relations Research Center 2022–2023
Research Assistant — Supervisor: Alexandre Uehara

Asian Business Center 2021–2023
Research Assistant — Supervisors: Alexandre Uehara and Han Kim

Teaching Experience

School of International Relations – ESPM 2022
Teaching Assistant — Economic Development (Undergraduate)

Conferences and Talks

33rd ENANGRAD Conference, Santa Catarina	2022
Asian Business Center, São Paulo	2022

Professional and Other Experiences

SonoThromb Medical Technologies Co-founder	2025
Ministry of Science, Technology, and Innovations Embedded Systems Technician (Softex Program)	2024–2025
Brazilian Bar Association Arbitration Committee Member	2023–2024
China Construction Bank Risk models and statistical analysis development	2023
Ministry of Foreign Affairs Process development for chancellery and business expansion	2022
South Korean Consulate Research Member	2021–2022

Honors and Awards

Awarded Honorable Mention, Undergraduate Thesis Defense	2024
Awarded Honorable Mention, CFA Institute Research Challenge	2022
Awarded Best Undergraduate Technical Paper	2022
Academic Merit Recognition Undergraduate	2021
Merit Scholarship, ESPM Undergraduate Program	2020 - 2024
Merit Scholarship, College Preparatory Program	2020

Skills

Languages: Portuguese (Native), English (Fluent), Spanish (Fluent), Mandarin (Basic), Dutch (Basic)

Software and Programming: \LaTeX , Python (geopandas, matplotlib, pandas, sklearn), R (ggplot2, stan, tidyverse), VBA