

# Alison Sousa

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## Education

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**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

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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

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**Beijing International Center for Mathematical Research** 2025  
Research — Advisor: 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

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

## Conferences and Talks

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

## Professional and Other Experiences

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

## Honors and Awards

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

## Skills

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**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