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## João Pedro Bento Ruas

### Professor Auxiliar

BRU-Iscte - Business Research Unit  
Department of Finance (IBS)



### Contacts

<b>E-mail</b>	Joao.Ruas@iscte-iul.pt
<b>Office</b>	D5.37
<b>Telephone</b>	217903936 (Ext: 795121)
<b>Post Box</b>	300

### Research Interests

Financial Derivatives

### Academic Qualifications

University/Institution	Type	Degree	Period
ISCTE-IUL	PhD	Finanças	2013
ISCTE-IUL	M.Sc.	Finanças	2010
Faculdade Economia da Universidade Nova de Lisboa	Licenciante	Economia	2003

## External Professional Activities

Period	Employer	Country	Description
2013 - 2021	Banco de Portugal	Portugal	Central Bank

## Teaching Activities

Teaching Year	Sem.	Course Name	Degree(s)	Coord
2025/2026	2°	Asset Pricing I		Yes
2025/2026	1°	Fundamentals of Computational Finance	Institutional Degree in ISCTE Business School;	Yes
2025/2026	1°	Research Seminar in Finance II	Doctorate Degree (PhD) in Finance;	Yes
2025/2026	1°	Research Project in Finance		Yes
2025/2026	1°	Phd Thesis in Finance		Yes
2025/2026	1°	Phd Thesis in Finance	Doctorate Degree (PhD) in Finance;	Yes
2025/2026	1°	Futures, Forwards and Swaps	Master Degree in Finance;	Yes
2024/2025	2°	Asset Pricing I	Doctorate Degree (PhD) in Economics; Doctorate Degree (PhD) in Finance;	Yes
2024/2025	2°	Asset and Liability Management	Master Degree in Finance;	Yes
2024/2025	2°	Investment in Derivatives, Commodities and Foreign Exchange	Other programme in Applied Online Financial Markets: Creation and Management of Portfolios.;	Yes
2024/2025	2°	Investments	Bachelor Degree in Management;	No
2024/2025	1°	Fundamentals of Computational Finance	Institutional Degree in ISCTE Business School;	Yes
2024/2025	1°	Research Project in Finance		Yes
2024/2025	1°	Phd Thesis in Finance		Yes
2024/2025	1°	Investments and Financial Markets	Bachelor Degree in Computer Science and Business Management;	No
2024/2025	1°	Financial Derivatives	Post Graduation Program in Financial Markets and Risk Management;	Yes

2024/2025	1°	Phd Thesis in Finance	Doctorate Degree (PhD) in Finance;	Yes
2024/2025	1°	Investment in Derivatives, Commodities and Foreign Exchange	Other programme in Applied Online Financial Markets: Creation and Management of Portfolios.;	Yes
2024/2025	1°	Futures, Forwards and Swaps	Master Degree in Finance;	Yes
2023/2024	2°	Asset Pricing I	Doctorate Degree (PhD) in Economics; Doctorate Degree (PhD) in Finance;	Yes
2023/2024	2°	Asset and Liability Management	Master Degree in Finance;	Yes
2023/2024	2°	Investments	Bachelor Degree in Management;	No
2023/2024	1°	Fundamentals of Computational Finance	Institutional Degree in ISCTE Business School;	Yes
2023/2024	1°	Investments and Financial Markets	Bachelor Degree in Computer Science and Business Management;	No
2023/2024	1°	Investment in Derivatives, Commodities and Foreign Exchange	Other programme in Applied Online Financial Markets: Creation and Management of Portfolios.;	Yes
2023/2024	1°	Futures, Forwards and Swaps	Master Degree in Finance;	Yes
2022/2023	2°	Asset Pricing I	Doctorate Degree (PhD) in Economics; Doctorate Degree (PhD) in Finance;	Yes
2022/2023	2°	Asset and Liability Management	Master Degree in Finance;	Yes
2022/2023	2°	Investments	Bachelor Degree in Management;	No
2022/2023	1°	Fundamentals of Computational Finance	Institutional Degree in ISCTE Business School;	Yes
2022/2023	1°	Investments and Financial Markets	Bachelor Degree in Computer Science and Business Management;	No
2022/2023	1°	Futures, Forwards and Swaps	Master Degree in Finance;	Yes
2021/2022	2°	Asset Pricing I	Doctorate Degree (PhD) in Economics; Doctorate Degree (PhD) in Finance;	Yes
2021/2022	2°	Asset and Liability Management	Master Degree in Finance;	Yes
2021/2022	2°	Investments	Bachelor Degree in Management;	No
2021/2022	1°	Fundamentals of Computational Finance	Institutional Degree in ISCTE Business School;	Yes
2021/2022	1°	Investments	Bachelor Degree in Finance and Accounting;	No
2021/2022	1°	Futures, Forwards and Swaps	Master Degree in Finance;	Yes

2020/2021	2º	Asset Pricing I	Doctorate Degree (PhD) in Economics; Doctorate Degree (PhD) in Finance;	Yes
2020/2021	2º	Asset and Liability Management		Yes
2020/2021	2º	Fundamentals of Finance	Bachelor Degree in Economics;	No
2020/2021	2º	Financial Derivatives	Master Degree in Monetary and Financial Economics;	Yes
2020/2021	1º	Fundamentals of Computational Finance	Institutional Degree in ISCTE Business School;	Yes
2019/2020	2º	Financial Derivatives	Master Degree in Monetary and Financial Economics;	Yes
2019/2020	1º	Fundamentals of Computational Finance	Institutional Degree in ISCTE Business School;	Yes

## Supervisions

### • Ph.D. Thesis

#### - Ongoing

	Student Name	Title/Topic	Language	Status	Institution
1	João Diogo Barros Moura	Financial Options: Options Returns, Hedging Strategy and Static Hedge Portfolio	English	Developing	Iscte
2	Luís Simão Almeida Ferreira	Exact Simulation of Jump Diffusion Processes	English	Developing	Iscte

#### - Concluded

	Student Name	Title/Topic	Language	Institution	Concluding Year
1	Carlos Miguel Aguiar da Glória	Essays on Dynamic Asset Pricing	English	Iscte	2024

### • M.Sc. Dissertations

#### - Ongoing

	Student Name	Title/Topic	Language	Status	Institution
1	João Pedro Gonçalves Frazão do Rosário	The joint SPX/VIX calibration	--	Developing	Iscte
2	Rafael Carreiras Ré	The S&P 500 Risk-Neutral Moments	--	Developing	Iscte

**- Concluded**

	<b>Student Name</b>	<b>Title/Topic</b>	<b>Language</b>	<b>Institution</b>	<b>Concluding Year</b>
1	José Miguel Mateus Serejo Rocha das Neves	Risk-neutral distributions implied from stochastic volatility jump-diffusion models.	English	Iscte	2025
2	Miguel Natal de Brito Boto	Numerical and Theoretical Analysis of Lognormal and Location-Scale t Mixture Models for Risk-Neutral Density Recovery	English	Iscte	2025
3	Cláudio dos Santos Machado	Implied Risk-Neutral Distribution: Parametric approaches	English	Iscte	2025
4	Mafalda Amaro Caneira	the variance risk premium	English	Iscte	2024
5	Duarte Miguel da Cunha Domingues Amador Marques	Empirical Comparison of S&P 500 Index Options: Black-Scholes-Merton Model and Heston Model	English	Iscte	2023
6	Raquel Lopes Coutinho	Option pricing using machine learning methods	Portuguese	Iscte	2023
7	João Pedro Gonçalves Cordeiro da Silva	S&P 500 options term structure	English	Iscte	2022
8	Pedro Miguel Tomás Carvalho	The VIX Premium Puzzle	Portuguese	Iscte	2021

## Total Citations

<b>Web of Science®</b>	91
<b>Scopus</b>	64

## Publications

**• Scientific Journals**

**- Scientific journal paper**

1	Dias, J. C., Nunes, J. P. V., Ruas, J. P. & Silva, F. C. da. (2026). Optimal investment decisions with minimum price guarantees under the constant elasticity of variance process. Omega. 143
2	Glória, C. M., Dias, J. C., Ruas, J. P. & Nunes, J. P. V. (2024). The interaction between equity-based compensation and debt in managerial risk choices. Review of Derivatives Research. 27 (3), 227-258 - Times Cited Web of Science®: 1 - Times Cited Scopus: 1 - Times Cited Google Scholar: 1

3	Nunes, J. & Ruas, J. (2024). A note on the Gumbel convergence for the Lee and Mykland jump tests. <i>Finance Research Letters</i> . 59 - Times Cited Web of Science®: 2 - Times Cited Scopus: 2
4	Nunes, J., Ruas, J. & Dias, J. C. (2020). Early exercise boundaries for American-style knock-out options. <i>European Journal of Operational Research</i> . 285 (2), 753-766 - Times Cited Web of Science®: 11 - Times Cited Scopus: 9 - Times Cited Google Scholar: 15
5	Nunes, J. P. V., Dias, J. C. & Ruas, J. P. (2020). The early exercise boundary under the jump to default extended CEV model. <i>Applied Mathematics and Optimization</i> . 82 (1), 151-181 - Times Cited Web of Science®: 1 - Times Cited Scopus: 2 - Times Cited Google Scholar: 6
6	Ruas, J. P., Nunes, J. P. V. & Dias, J. C. (2016). In-out parity relations for American-style barrier options. <i>Journal of Derivatives</i> . 23 (4), 20-32 - Times Cited Web of Science®: 1 - Times Cited Scopus: 1 - Times Cited Google Scholar: 2
7	Nunes, J., Ruas, J. & Dias, J. C. (2015). Pricing and static hedging of American-style knock-in options on defaultable stocks. <i>Journal of Banking and Finance</i> . 58, 343-360 - Times Cited Web of Science®: 23 - Times Cited Scopus: 15 - Times Cited Google Scholar: 26
8	Dias, J. C., Nunes, J. P. V. & Ruas, J. P. (2015). Pricing and static hedging of european-style double barrier options under the jump to default extended CEV model. <i>Quantitative Finance</i> . 15 (12), 1995-2010 - Times Cited Web of Science®: 21 - Times Cited Scopus: 14 - Times Cited Google Scholar: 26
9	Ruas, J. P., Dias, J. C. & Nunes, J. (2013). Pricing and static hedging of American-style options under the jump to default extended CEV model. <i>Journal of Banking and Finance</i> . 37 (11), 4059-4072 - Times Cited Web of Science®: 31 - Times Cited Scopus: 20 - Times Cited Google Scholar: 38

## • Conferences/Workshops and Talks

### - Talk

1	Nunes, J., Ruas, J. & Dias, J. C. (2025). Unpuzzling Volatility Risk Premiums through the Joint SPX/VIX Smile Calibration. <i>Workshop on Financial Risk with Big Data</i> .
2	Glória, C. M., Dias, J. C. & Ruas, J. (2024). Robust Optimal Strategy for an AAM of DC Pension Plans under Jump-Diffusion and with Time-Varying Ambiguity. <i>Scandinavian Actuarial Conference 2024</i> .
3	Dias, J. C., Nunes, J., Ruas, J. & Silva, F. C. (2023). Optimal Investment Decisions with Minimum Price Guarantees under the Constant Elasticity of Variance Process. <i>26th International Conference on Real Options</i> .

4	Dias, J. C., Nunes, J., Ruas, J. & Silva, F. C. (2023). Optimal Investment Decisions with Minimum Price Guarantees under the Constant Elasticity of Variance Process. 12th International Conference of the Portuguese Finance Network.
5	Gloria, C. M., Dias, J. C., Ruas, J. & Nunes, J. (2022). The Interaction Between Equity-Based Compensation and Debt in Managerial Risk Choices. Paris Financial Management Conference.
6	Dias, J. C., Ildefonso, J., Nunes, J. & Ruas, J. (2021). Repeated Richardson Extrapolation and Static Hedging of Barrier Options under the JDCEV Model. 11th International Conference of the Portuguese Finance Network.
7	Ruas, J., Nunes, J. & Dias, J. C. (2018). Early Exercise Boundaries for American-style Knock-Out Options. 10th World Congress of the Bachelier Finance Society.
8	Nunes, J., Dias, J. C. & Ruas, J. (2016). The Early Exercise Boundary under the Jump to Default Extended CEV Model. 9th World Congress of the Bachelier Finance Society.

## • Other Publications

### - Other publications

1	Ruas, J., Dias, J. C. & Nunes, J. (2017). Erratum to "Pricing and static hedging of American-style options under the jump to default extended CEV model" (Journal of Banking and Finance (2013) 37(11) (4059–4072) (S0378426613002896) (10.1016/j.jbankfin.2013.07.019)). Journal of Banking and Finance. 81, 20-23
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## Academic Management Positions

Director (2024 - 2026)  
Unit/Area: Doctorate Degree (PhD) in Finance

Coordenador de ECTS (2024 - 2027)  
Unit/Area: Department of Finance

Director (2022 - 2024)  
Unit/Area: Doctorate Degree (PhD) in Finance