

Short Bio

Chair Full Professor Dr. Stelios Bekiros

Professor Bekiros's **Global Rankings** as recently measured and publicly reported by all established global metrics, are outstanding. His scientific achievements foster extrovercy, academic excellence and promote multidisciplinary cutting-edge research, at the intersection of many scientific fields.

Professor Dr. Stelios Bekiros (Hab., PhD, MEng, MSc, Dipl.-Ing, BEng) ranks at the **TOP 0.2% for 2025 in the Stanford's World TOP 2%** *most distinguished scientists list* (John P.A. Ioannidis, 2024). He ranks at **#10 out of 6,491 authors** and **#190 out of 44,459 authors** at his primary fields and sub-fields of his scientific expertise.

He ranks in **ScholarGPS** (ScholarGPS™ ID: 60455308873206) as the international "*Highly Ranked Scholar of Overall Lifetime Achievement*" at the **TOP 0.24%** "*Overall ALL scientific fields*". For the "*Period 5 Years Prior*" he ranks at the **TOP 0.01%** "*Overall Lifetime achievement in all scientific fields*". He ranks worldwide at **#1 in "Management Science & Control"**, at **#129 (1%) in Financial AI** and at **#141 in "Economics" etc**, among a plethora of topical fields in diverse areas.

Moreover, Professor Bekiros ranks at ranks at **TOP 5% All time Authors h-index**, as of 2025 by IDEAS-RePEc and at the **Top 1% "Economists Worldwide 2025"**, according to **AD Scientific Index** (AD:1870087). He ranks at **#1 for the i-10 index Italy, last 6 years**, at **#2 Economics Italy**, at **#13 Economics field all over Italy** at **#TOP 0.5% in Economics World**. At the University of Turin (UniTo), for the "Period 5 Years Prior" he ranks at **#3 in Economics UniTo** and at **#1 in Management (control) UniTo**.

He also ranks at **Google Scholar**, IDEAS, Web of Science, Scopus among the **Top 0.5%** authors worldwide in the fields of "*Quantum Artificial Intelligence*", "*Machine Learning*", "*Blockchain*", "*Econometrics*", "*FinTech/Finance*", "*Econophysics*" and "*Complex Systems Science*", with **~ 15,500 citations, h-index = 67, i10-index = 216**.

Professor Bekiros proudly serves on the Elector Board of the **Academy of Athens**, and he is a senior member of the *Research Center for Natural Hazards & Crisis Management, (Greek) Academy of Athens*. He is a **Full Member** of the **Sigma Xi (ΣΞ)** Scientific Research Honor Society, one of the oldest honor societies founded at **Cornell University** in 1886. Membership in **Sigma Xi** is by invitation only. More than **200 winners of the Nobel Prize** have been Sigma Xi (ΣΞ) members, including Francis Crick, Jennifer Doudna, Albert Einstein, Enrico Fermi, Richard Feynman, John Goodenough, Linus Pauling, and James Watson. He has been awarded fellowships for contribution and excellence in service to sciences, arts and society by the **Rotary International** and the Hellenic Rotary Club (2457), for both of which he serves as a full member.

Professor Bekiros obtained a Dipl.-Ing / BEng and an MEng in *Electrical and Computer Engineering* (spec. Artificial Intelligence, Software Engineering, Control Systems) from National Technical University of Athens (NTUA/joint MIT cohorts). He also holds an MSc in *Decision Sciences* (spec. Statistics, Financial Engineering, Operations Research and Computer Science) and a PhD in *FinAI, Big Data Science & Machine Learning Econometrics* from Athens University of Economics and Business (AUEB). He has more than twenty seven (27) years of postdoctoral research and teaching experience in many distinguished universities, centres and research institutions, mainly in the Netherlands, Italy, France, UK and Greece. He was a faculty member/research fellow at the European Institute for Statistics, Probability, Stochastic Operations Research and its Applications (EURANDOM), Technical University of Eindhoven, at the Center for Nonlinear Dynamics in Economics and Finance (CeNDEF) of the Faculty of Economics and Econometrics of the University of Amsterdam, at the Department of Economics of the European University Institute (EUI) in Florence (Italy), at the Hellenic Ministry of Finance, at the Centre of Planning and Economic Research (KEPE), at the IPAG Business School in Paris, France, and at the Decision Support Systems Laboratory of the National Technical University of Athens.

He has been awarded numerous prestigious Grants including the Max Weber Fellowship – the largest postdoctoral programme in the social sciences in the world hosted by the EUI and funded by the European Commission (DG Education) – three MSCA Fellowships & Awards for pioneering work on multidisciplinary research, many national grants/awards by the EU, NWO, RC-AUEB/GSRT whilst he was appointed Scientific director of European EC projects (FP-7, H2020) in many universities and institutions. In the past he held research and postdoctoral positions at some of the most pioneering and prestigious academic centres and institutes worldwide such as the [European Institute for Statistics, Probability, Stochastic Operations Research and its Applications \(EURANDOM\)](#), the Center for Nonlinear Dynamics in Economics and Finance (CeNDEF) and the European University Institute (EUI), among other.

Professor Bekiros holds **four (4) Chair Full Professorship Habilitations** in 1) *Operations Research and Mathematical Methods in Economics, Insurance and Finance*, 2) *Economic Statistics*, 3) *Econometrics*, and 4) *Economic Policy*. He was elected in 2019 Full Professor of Economic Statistics at the Dept. of Statistical Sciences of the University of Padova, Italy. He is currently '*Valter Cantino*' Chair Full Professor of Economics AI & Finance at the School of Management & Economics at the University of Turin (UniTo), and was a Joint UniTo-UM Chair of FinTech/AI, Econometrics & Data Science at the Faculty of Economics, Management (FEMA) of the University of Malta (UM). He was Research Full Professor at the IPAG Business School, Senior Fellow of the LSE Health Center at the Department of Health Policy, London School of Economics (LSE). He is currently a Senior fellow at the Rimini Centre for Economic Analysis (RCEA), ADEMU affiliated researcher at the European University Institute and senior visiting fellow. Professor Bekiros has also worked in other research positions in the academia and as an engineering & financial expert consultant in the public and private sector.

He is the **only EU researcher who has been awarded four (4) prestigious European Fellowships**, in particular **3 Marie Skłodowska-Curie (MSCA) Fellowships (2011, 2013, 2015)** for pioneering multidisciplinary work at the intersection of many scientific fields, as well as a **Max Weber Fellowship (MWP) in economics by the European Commission (2009) hosted by the EUI**. Professor Bekiros strongly emphasizes multidisciplinary, interdisciplinary and trans-disciplinary research in studying the complexity of economic, social and natural systems through applying emerging novel technologies and approaches, ranging from *Quantum Computing, Blockchain, Big Data Science, Machine Learning, Artificial Intelligence, Statistical Mechanics, Control Theory, Physics, Electrical Engineering, Earth Sciences, Meteorology and Seismology*, up to *Economics, Hypergame theory, Warfare and Military studies, Legal and regulatory studies (Ethics), Brain and Cognitive sciences, Psychology, Bioinformatics, Life Sciences, Health Policy, Biopharmaceutics, Pharmacokinetics, Neuroscience and Medicine*.

Professor Dr. Stelios Bekiros is a **pioneer** in developing and applying new approaches in **Artificial Intelligence, Machine Learning, Econophysics** and **Complex Systems Science** in social and natural sciences. Back in 1998, under the scope of his MEng thesis, he developed a novel AI-driven genetic algorithm in conjunction with nonlinear operations research and computational game theory utilised to optimise the returns of synthetic structured derivatives' portfolios while at the same time mitigating operational, financial and climate risks. The model was developed within the context of early attempts in deploying deregulated energy markets with heterogeneous agents, investors, speculators, arbitrageurs, institutional and regulatory stakeholders. In his MSc thesis (2001) he employed complex theory approaches, ranging from earth sciences, meteorology, climate and environmental sciences, to hydrology, structural engineering, seismology, multivariate extreme value statistics and chaotic dynamics, in building new mathematical and empirical models of superior forecastability in social, natural and physical systems. In his PhD dissertation (2004) he was one of the first early scholars to utilize mathematical biology models of self-organised fractality originating from statistical mechanics and complexity theory, in conjunction with models of inherent Heisenberg indeterminacy and stochastic uncertainty derived from quantum mechanics. The aim was to develop an integrated AI system capable of processing, forecasting and nowcasting multi-dimensional state-space and parameter big data-driven models, during crises' outbreaks. The hybrid modeling which incorporated deep reinforcement learning (recurrent chaotic neural networks) and a robust Actor-Critic fuzzy controller,

was fine-tuned by Bayesian hyper-parameter training and was deployed after pre-filtering and post-processing the data pipelines through spectral and time-scale Wavelet filters (MODWT and CWT). Some of his early pioneering works, include *Bekiros et. al (2004)*, *Bekiros et. al (2005)*, *Bekiros (2007)*, *Bekiros et. al (2008)*, *Bekiros (2009)*, *Bekiros (2010)*, *Bekiros (2013)*, *Bekiros (2015)* among other.

Being at the forefront of *DLT/Blockchain Technology*, Prof. Bekiros was one of the contributing authors of the White Paper “**Tokenise: How NFTs and tokenisation will disrupt tomorrow’s economies**”, which is considered one of the most influential in the topic, and was published by ‘*Seed Consulting*’ ISBN: 978-9918-9531-4-1. Non-fungible tokens (NFTs) have the potential to facilitate revenue streams by establishing new forms of digital property in the areas of art, music, movies, collectibles, DeFi, real estate, and real-world assets. NFTs are a unique tool in tokenomics, *linked* instrumentally with the recent surge of development of DAOs. He has also contributed to the *design of Algo-cryptos, dApps and DAOs in the Solana chain, Stablecoins, Smart contracts integrating AI, DEXs, AMMs and Synthetic derivatives, Prediction Market governance and Multi-chain protocols, Big-Data oracles and aggregators, and in many other advanced features of Decentralized Finance ecosystems (DeFi)*.

He has participated in numerous conferences and academic seminars and has been an invited speaker in many prestigious universities and institutions. During the last twenty five years he has served as principal investigator, project manager or team member in many European and national research projects (e.g., H2020, FP7, Max Weber Programme, EC-MSCA, Netherlands organization for scientific research-NWO, EU 3rd Framework Programme, EIB, EC DG-XIII/ESPRIT, EPET-II/Hellenic Ministry of Development, Cyprus RPF/Penek etc.). Amongst many current projects he served as principal investigator in a Mega-EU Grant project implemented under the Action *CL4-2022-DATA-01* of the Horizon Framework Programme for Research and Innovation (2021-2027) entitled: “*Promoting and Incentivising Federated, Trusted, and Fair Sharing and Trading of Interoperable Data ASsets*” (PISTIS). It comprised a consortium of 104 partners coordinated by *Fraunhofer Society for the Advancement of Applied Research*, which is the biggest organization for applied research and development services in Europe comprising 76 institutes and an annual research budget of €2.8 billion.

Professor Bekiros serves as expert evaluator for the NSERC (Natural Sciences and Engineering Research Council of Canada), the NSF (USA), expert evaluator for the QS Reputation Survey – QS World University Rankings, expert evaluator/vice-chair for the European Commission (EU-REA panels, Horizon programme), expert evaluator for the Swiss National Science Foundation (SNF), a WES expert for Ifo Institute (Leibniz Institute for Economic Research, University of Munich), expert project evaluator for “la Caixa Barcelona Institute” Banking Foundation, economic expert for the Bank of Finland, international expert for Paris Region Fellowship Programme (ParisRegionFP) H2020 Orientation Service de la Recherche et Culture Scientifique, and evaluator of Research for GSRT (Hellenic Ministry of Education). He is certified by the Hellenic Ministry of Education as a Full Professor academic elector/evaluator. He has been a Visiting Scholar at Cambridge University (UK), LUISS Guido Carli (Rome, Italy), Queen Mary University of London (UK), Linköping University (Sweden), University of Amsterdam (The Netherlands), European University Institute (Florence, Italy) and IPAG Business School (Paris, France).

He is an *inaugurate distinguished Editorial Member* of a new journal “*Reviews of Economic Literature (REL)*” that publishes articles on developments across the field of economics for economists and other interested readers. *REL* is a Diamond Open Access journal (without fees for authors or readers) owned by an editorial non-profit and published by *Stanford University Press (SUP)*, as the first newly published Journal by SUP after a century. He serves as **Editor-in-Chief** for: “*AI Insights*”, for “*Economics – Innovative and Economic Research Journal*” indexed by Elsevier, and for “*Journal of Blockchain and Distributed Ledger Technologies*”, “*Journal of FinTech and Financial Engineering*”, “*IECE Transactions on Computational Intelligence and Data Science*” published by the prestigious *IECE Institute of Emerging and Computer Engineers, USA*. He is **Editor-in-Chief, Academic Editor, Co-Editor and Assc. Editor** for more than 20 prestigious Journals by all major publishers, i.e.: “*PLOS ONE*”, Plos; “*Chaos, Solitons & Fractals*”, Elsevier; “*Economics – Innovative and Economic Research Journal*”, Elsevier; “*INFORMS Journal*

on *Applied Analytics (IJAA) (formerly Interfaces)*; “*Entropy*” Journal; “*Energy Systems*”, Springer-Nature; “*Journal of Economic Surveys*” Wiley; “*Risk Analysis*”, Wiley; “*Journal of Forecasting*”, Wiley; “*Computational Economics*”, Springer; “*Review of Behavioral Economics*”; “*Review of Behavioral Finance*”; “*Quantitative Finance & Economics*”; “*International Review of Financial Analysis*”, Elsevier; “*Finance Research Letters*”, Elsevier; “*Heliyon*”, Elsevier; “*Emerging Markets Finance and Trade*”, Taylor & Francis; “*International Review of Economics & Finance*”, Elsevier; “*Alexandria Engineering Journal*”, Elsevier; “*Forecasting*” Journal; “*Technology in Society*”, Elsevier; “*Financial Statistical Journal*” etc.

His work, with presently **over 300 articles**, has been published in the most highly esteemed academic journals, books, collective volumes and proceedings in many scientific fields. Moreover, he has **more than 25 single-authored papers** published in the most accredited topical journals such as the *Journal of Economic Dynamics & Control*, *European Journal of Operational Research*, *Risk Analysis*, *Journal of Banking & Finance*, *Journal of Empirical Finance*, *Journal of International Money & Finance*, *Economics Letters*, *IEEE Transactions on Neural Networks & Learning Systems*, *Economic Modelling*, *International Review of Financial Analysis*, *North American Journal of Economics & Finance*, *Computational Economics* etc, among many other.

His **research interests** include: *Machine Learning, Artificial Intelligence, Economics, Blockchain Technology, DeFi, FinTech, Big Data Science, IoT, Quantum Chaos and Econophysics, Hypergame theory, Epigenomics, Computational Medicine, Bioinformatics, Computational Econometrics, Extreme and Bayesian Statistics, Complex Systems, Quantum and Statistical Mechanics, Control Theory, Electrical Engineering, Meteorology, Earthquake science, Brain and Cognitive sciences, Health Economics, Neuroscience, Financial Engineering, Electrical Engineering, Military studies, Legal studies & Ethics and Cyber-security*. He acts as a referee for top journals in many scientific disciplines aside from economics; in 2010 he was given the best reviewer award by the prestigious European Journal of Operational Research (EJOR, Elsevier), and in 2016 by the Journal of Empirical Finance (Elsevier). He is a member of the European Area Business Cycle Network (EABCN), the Econometric Society, Royal Economic Society, the European Economic Association, the Society of Financial Econometrics, the IEEE Computational Intelligence Society, INFORMS, the Society for Computational Economics (SCE), the Society for Economic Measurement (SEM) and the Rimini Centre for Economic Analysis (RCEA). He was Senior Fellow at the LSE Health Center of London School of Economics (LSE). He is certified by the Hellenic Ministry of Education as a Full Professor academic elector/evaluator (Ref.Code: 35577). He currently explores classified white papers and projects on *BEC-state of matter*.

His *widely-developed and established teaching portfolio* includes under- and post-graduate courses such as “*Big Data Science, Machine Learning & Artificial Intelligence in Economics/Finance*” (MSc/PhD level), “*Time Series Econometrics*” (BSc/MSc) & “*Advanced Econometrics*” (MSc level), “*Econophysics & Nonlinear Economic Dynamics*”/“*Complexity theory in Economics*” (MSc/PhD level), “*Advanced Econometrics*” (PhD/MSc, BSc & ERASMUS level), “*Tokenization, Blockchain & DeFi*” (MSc/PhD level), “*Crypto-Econometrics, Algorithmic trading & Technical analysis*” (crash course mode), “*Econometrics in Banking & Finance*” (BSc/MSc level), “*Spectral & Nonparametric Econometrics*” (crash course mode), “*Stochastic Differential Equations & Martingales with Applications in Derivatives Markets*” (BSc/MSc level), “*OR & Decision/Expert Systems*” (MEng/PhD level) School of Electrical & Computer Engineering (NTUA), “*Computational Finance & Econometrics*” (ERASMUS+ level), “*Quantitative Methods in Economics & Finance*” (BSc level), “*Financial Engineering & Risk Measurement*” (BSc/MSc level).

Beyond his academic profile, he holds an MMUS in *music theory and guitar performance* in various genres such as jazz, classical and fusion. He is also inspired by the philosophies of all martial arts. *Sensei Bekiros* is an *accomplished Black Belt Ju-Jitsu Master* (JJIF), a *Mixed Martial Arts (MMA) instructor*, an *ISU certified Self-defense instructor* by the International Street-Fighting Union (ISU), and a disciple of *DAS street-fighting* system. He has certified seminar training in *Aikido* and in advanced *armed & unarmed combat Krav-Maga* techniques. During recent years, he trains in *Muay Thai, Silat* and *Filipino* martial arts. He served in the military, specifically in armor (*black berets*) and artillery (*blue berets*) arms, where he was trained for *active combatant unrestricted service I-1* (equivalent 1-A USA/UK).

Professor Bekiros is seeking to leapfrog traditional rankings through multidisciplinary excellence and AI-driven technological disruption in all emerging frontier research domains. He strongly envisions promoting the following agenda:

- **Academic excellence, extrovercy and visibility** in multidisciplinary cutting-edge research at the intersection of many scientific fields.
 - *Promoting multi- inter- and trans-disciplinary projects through fostering scientific collaborations which could really “unchain” researchers and scientists from the conventional constraints of mainstream organizations hence provide the ideal environment for innovative, frontier research.*
 - *Supervising and submitting research proposals (ERC Grants, Horizon 2023-2027, ESRC, Levehulme, NSF etc) to Italian, EU, UK, US, Asian or any other funding bodies, economic and financial institutions, in line with the University/Faculty governance framework.*
 - *Participating, developing synergies and organizing conferences, workshops and business out-reach actions under the core topics of the University/Faculty as well as other sub-areas of active research.*
- **Next-Generation expertise** in frontier fields, such as: *DLT/Blockchain Technology, Financial Engineering, Big Data Science, Machine Learning, FinTech, Artificial Intelligence, Complex Systems Science, Quantum Computing, Corporate Finance, Crypto/DeFi, Chaos and Econophysics, Computational Econometrics, Extreme/Bayesian Statistics, Cyber-security.*
- **Research funding and incoming revenues** accrued by large-scale projects, industry partnerships, and newly established start-ups and spin-offs.
 - *Developing a dynamic funding strategy including active pursuit of fiscal/public and state resources, private partnerships, and third-party funding.*
 - *Building national and international networks with partners (private sector, universities, start-ups etc.) towards conducting collaborative pioneering research thus shaping the University's strategic direction in emerging technologies, AI and digital innovation.*
- **Structural growth** attained through new curricula, courses, laboratories, groups (FinTech; AI Labs; Quantum computing/DLT ecosystems) and high-tier job placements for graduates.
 - *Contributing and advancing the portfolio of collaborative research in didactics and research via a dynamic agenda which will be updated based upon the University/Faculty's timely and up-to-date interaction with industry stakeholders and policymakers.*

In modern didactics, he fosters a strategic competitive advantage through a novel ‘systemic solution’ as **PoC/PoV-as-a-Service**. Professor Bekiros has personally-developed an innovative fully integrated **Edge AI** real-time multilingual didactic system, comprising an *all-in-one, portable, mobile and easy-to-use hardware-software configuration* accommodating *30+ linguistic pairs* in all combinations. He deploys cloning in any language to deliver on-the-fly lectures, while students hear instantly in a synchronous manner in their native language (e.g., French, Spanish, German, Chinese/Mandarin, Hindu, Japanese, Arabic, Korean etc). His modern didactic strategy integrates optimally four pillars:

1. **The Integrated Global Classroom:** *(A)Synchronous and On/Off-line education for local and international undergraduate/MBA/executive/PhD/Postdoc cohorts.*
2. **Zero-Barrier Elite Education:** *Enhancement of university's 'Global Reach' metrics for non-native students including 'high-paying' business executives and conference/seminar speakers.*
3. **Multi-Lingual Real-Time Pedagogy:** *Edge AI technology with sub-latency, accuracy and efficiency in cloning/broadcasting for 30+ language pairs.*
4. **Localized Internationalization:** *Real-time adaptation for Erasmus + and Virtual/Hybrid education rendering capable of teaching students at partner universities in Europe, Asia or any other global region.*

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