Professional Profile of Dr. Félix Cuadrado Latasa

1. Professional and Academic Career

Dr. Félix Cuadrado Latasa possesses a distinguished academic and professional profile characterized by significant contributions to Telematics Engineering and Computer Science, holding concurrent senior positions in both the United Kingdom and Spain. This dual affiliation underscores his international standing and the high demand for his expertise across different academic systems.

Current Positions:

- **Senior Lecturer, School of Electronic Engineering and Computer Science, Queen Mary University of London (QMUL), UK:** In this role, equivalent to an Associate Professor level in other systems [1], Dr. Cuadrado undertakes significant teaching and research responsibilities within a leading UK university department.[2] Notably, he serves as the Coordinator for the MSc in Big Data Science [2], demonstrating leadership in postgraduate education within a field of critical contemporary importance.
- **Turing Fellow, The Alan Turing Institute, UK:** This prestigious fellowship signifies national-level recognition within the UK's premier institute for artificial intelligence and data science.[2] This role involves engagement in cutting-edge research initiatives and collaboration within the national data science community, including significant involvement in the Raphtory project.[4] He previously held the position of Visiting Reader at QMUL concurrent with this fellowship.[2]
- **Profesor Titular de Universidad, Departamento de Ingeniería de Sistemas Telemáticos, E.T.S. de Ingenieros de Telecomunicación, Universidad Politécnica de Madrid (UPM), Spain:** Dr. Cuadrado holds a permanent, high-ranking academic position within the Spanish university system in the area of Telematics Engineering (Ingeniería Telemática).[5] This rank, achieved through competitive processes based on scientific merit, signifies considerable academic achievement and tenure. Official records confirm this position as ongoing since at least May 2011 and current as of March 2024.[5]

Academic Progression and Milestones:

Dr. Cuadrado's career trajectory demonstrates a consistent path of academic excellence. His foundational work includes:

- **PhD in Telecommunications Engineering, Universidad Politécnica de Madrid (UPM), Spain (2009):** His doctoral thesis, titled "A Proposal for Model-Based Automation of Enterprise Service Change Management Processes," was supervised by Dr. Juan Carlos Dueñas López.[7] This research laid the groundwork for his subsequent work on autonomic systems and service management. The quality of this work was recognized with a national award (detailed in Section 4).
- **Degree in Telecommunications Engineering, Universidad Politécnica de Madrid (UPM), Spain (2005):** This degree provided the prerequisite engineering foundation for his doctoral studies and research career.[3]

Analysis of Role Relevance and Management Scope:

The progression from a PhD at UPM to simultaneously holding senior academic roles at QMUL and UPM, complemented by a fellowship at the Alan Turing Institute, indicates a career of significant international recognition and impact. The attainment of the "Profesor Titular" rank at UPM is, in itself, a testament to scientific merit within the Spanish system.[5] Similarly, the Turing Fellowship is a highly selective appointment reflecting his recognized expertise in data science.[2]

While specific figures regarding personnel or budget management are not detailed in the available documentation, the nature of Dr. Cuadrado's positions implies substantial leadership and management responsibilities. Coordinating a Master's program involves significant administrative oversight and curriculum management.[2] Senior academic roles typically entail the supervision of junior researchers and postgraduate students. Furthermore, active participation and leadership roles in research projects, such as the Raphtory initiative at the Alan Turing Institute [4], necessitate the management of research direction, resources, and potentially project staff.

The maintenance of high-level academic positions concurrently in Spain and the UK is noteworthy. It suggests a robust international network, adaptability in navigating different academic and funding environments, and a capacity to foster cross-border collaborations, enriching his research and educational activities.

2. Main Research Areas

Dr. Félix Cuadrado Latasa's research expertise lies at the intersection of Telematics Engineering and Computer Science, with a primary focus on the architecture, management, and analysis of large-scale, dynamic, distributed systems and networks. His work addresses fundamental challenges in scalability, real-time processing, and extracting meaningful insights from complex, evolving data. His research portfolio can be broadly categorized into several interconnected themes:

- **Distributed Systems and Services:** Foundational work includes contributions to Autonomic Computing, Service-Oriented Architecture (SOA), Cloud Computing, and more recently, Edge/Fog Computing architectures.[5] His doctoral research specifically addressed the automation of change management processes for enterprise services using model-based approaches.[7] He has explored challenges in service orchestration, middleware development, and the design of autonomic engines for service configuration and deployment.[8]
- **Network Analysis and Measurement:** Dr. Cuadrado investigates the structure and behavior of the internet through large-scale measurements and analysis. This includes studies on Internet topology, network traffic patterns, the performance and impact of Content Delivery Networks (CDNs) like Netflix's Open Connect [8], the role of middleboxes, and the implications of protocols such as DNS-over-HTTPS.[3] His work often involves empirical analysis of real-world systems, such as the Twitch live streaming platform.[8]
- **Large-Scale Graph Processing (Temporal Graphs):** A major and defining focus of his recent research is the processing and analysis of large-scale dynamic or temporal graphs.[1] Temporal graphs model systems where nodes,

edges, and their associated properties evolve over time, presenting unique analytical challenges. This area leverages his expertise in distributed systems and network analysis to tackle the complexities of time-varying network data.

- **Data Science and Big Data Systems:** Dr. Cuadrado develops and investigates systems and algorithms designed to operate effectively at massive scale.[2] This includes work on scalable online learning for business process prediction [15], AI-based frameworks for resource management in cloud and edge environments [1], and the analysis of large social network datasets.[9] His leadership role in QMUL's MSc in Big Data Science further aligns with this focus.[2]

A particularly significant contribution within his recent research is the **Raphtory** project. Dr. Cuadrado is a key figure in the conception and development of Raphtory, a distributed, streaming, in-memory system specifically engineered for building and analyzing large-scale temporal graphs.[1] Raphtory addresses the limitations of traditional static graph processing systems by natively supporting the temporal dimension, allowing analysis of the full history of network evolution.[4] It is designed for scalability, handling real-time data ingestion from streams while enabling complex temporal queries and analyses in parallel.[4] Built using Rust for performance and providing Python interfaces for accessibility [16], Raphtory aims to empower researchers and practitioners across various domains (including academia and industry) to extract deeper insights from dynamic network data.[4]

Observing Dr. Cuadrado's publication trajectory reveals a clear progression. Initial work focused on the foundational aspects of service-oriented and autonomic systems.[5] This evolved towards tackling the challenges presented by the increasing scale and dynamism of modern internet services and distributed systems, leading to significant work in network measurement, cloud/edge computing, and large-scale data analysis.[8] The development of Raphtory represents a synthesis of these interests, providing a specialized, high-performance tool to address the specific complexities of temporal network data, a critical area given the prevalence of dynamic interactions in systems ranging from social networks to financial transactions and infrastructure monitoring. This evolution ensures his research remains highly relevant to pressing technological challenges.

3. Leadership, Management, and Institutional Service

Dr. Cuadrado Latasa's career incorporates significant leadership and service roles within academic and research institutions in both the UK and Spain. These roles span research direction, educational program management, and contributions to institutional research groups.

Chronological Overview of Roles (Most Recent First):

- **Turing Fellow, The Alan Turing Institute (Current/Recent):** This fellowship places him within the UK's national AI and data science leadership structure. Beyond the prestige, it involves active participation in research initiatives and contributing to the Institute's goals. His role as an organiser for the Raphtory project exemplifies this research leadership within the Turing framework.[2]

- **Coordinator, MSc in Big Data Science, QMUL (Current/Recent):** This position entails direct leadership responsibility for a postgraduate program. Duties likely include curriculum development, student admissions and advising, quality assurance, and liaison with faculty, demonstrating leadership in higher education management within a strategically vital field.[2]
- **Senior Lecturer, QMUL (Current/Recent):** As a senior faculty member, this role involves inherent leadership through teaching, mentoring students, supervising research, and contributing to the administrative and academic life of the School of Electronic Engineering and Computer Science.[1]
- **Profesor Titular de Universidad, UPM (May 2011 - Present):** This tenured position represents a significant academic leadership role within his department at UPM, involving sustained contributions to research, teaching, and university service over more than a decade.[5]
- **Member, Research Group "Sistemas De Tiempo Real Y Arquitectura De Servicios Telemáticos", UPM (May 2011 - Present):** Dr. Cuadrado has been an active member of this formal UPM research group since 2011.[5] Participation in such groups involves contributing to the collective research strategy, collaborating on projects, and mentoring junior members.
- **Project Participant/Collaborator:** His involvement in numerous collaborative research projects (e.g., OSAMI Commons [11], TRIDEC [33], Raphtory [4]) demonstrates experience in teamwork, contributing to shared goals, and potentially taking leadership roles within specific project tasks or work packages.
- **PhD Co-director:** He has formally served as a co-director for PhD theses at UPM, guiding doctoral candidates through their research.[34]

These varied roles illustrate a profile that balances high-level research leadership, evidenced by the Turing Fellowship and project involvement, with significant contributions to educational leadership through the MSc coordination. This combination allows him to influence both the advancement of knowledge in his field and the training of the next generation of data scientists and engineers, reflecting a well-rounded commitment to the core missions of academia.

4. Relevant Works, Recognitions, Prestigious Awards and Honors

Dr. Cuadrado Latasa's contributions have been recognized through prestigious appointments, awards, and the development of impactful software systems throughout his career.

Chronological Overview (Most Recent First where datable):

- **Turing Fellowship, The Alan Turing Institute:** Appointment as a Fellow at the UK's national institute for data science and artificial intelligence represents a significant contemporary recognition of his expertise and research standing.[2]
- **Best Paper Award (ICAS 2011):** His publication list notes a best paper award for the paper "Dynamic Model-based Management of a Service-Oriented Infrastructure," presented at the Seventh International Conference on Autonomic and Autonomous Systems (ICAS) in 2011.[8]

- **National Award for Best PhD Thesis (2011):** Dr. Cuadrado received a prestigious national award from the Spanish Association of Telecommunication Engineers (Colegio Oficial de Ingenieros de Telecomunicación - COIT) for his doctoral thesis.[2] While specific sponsor names associated with the award category vary slightly across sources (e.g., Premio ONO [36]), the core recognition is for the outstanding quality and contribution of his PhD work in areas related to telecommunications management, service innovation, or network/service management.[35] This early-career award highlighted the significance of his research from its inception.
- **Notable Software Systems Developed:**
  - **Raphtory:** A major contribution is his role in the development of Raphtory, a sophisticated, open-source software system for the streaming analysis of distributed temporal graphs.[1] The creation and dissemination of such a tool constitute a significant scholarly work and a form of recognition through adoption by the research community.
  - **OSAMI Commons:** He contributed to the OSAMI Commons project, which developed an open-source platform for ambient intelligence services.[11]
  - **Self-CEDS and VNetModeller:** Intellectual property registrations for software developed earlier in his career (circa 2010) indicate early work on creating tangible software outputs.[5]

The pattern of recognition demonstrates sustained excellence. The national PhD award provided a strong foundation, acknowledging the high caliber of his initial research. The subsequent Turing Fellowship confirms his continued standing and relevance at the forefront of data science research in the UK. Furthermore, the development of impactful, open-source software like Raphtory represents a significant contribution that garners recognition through its utility and adoption within the scientific and potentially industrial communities.

5. Publications

Dr. Cuadrado Latasa has established a strong publication record characterized by contributions to reputable international journals and conferences, demonstrating significant impact within the fields of computer networks, distributed systems, and data science.

General Impact Overview:

His scholarly output has garnered considerable attention from the research community, as evidenced by citation metrics. His Google Scholar profile indicates a total of 1942 citations, an h-index of 22, and an i10-index of 30.[9] Notably, the metrics accumulated since 2020 (1315 citations, h-index of 19, i10-index of 23) underscore the substantial and growing impact of his recent work.[9] This suggests his research is actively influencing current discourse and advancements in his areas of expertise.

Highlighted Important/Highly Cited Publications (Career-wide):

Several publications stand out due to their high citation counts, indicating significant influence:

- Systematic reviews and taxonomies on emerging topics like AI-based fog/edge computing [9] and serverless computing.[15]
- Empirical studies of large-scale internet systems, providing insights into the ecosystems of platforms like Netflix CDN [8] and Twitch.[8]
- Foundational work on network measurement and protocol analysis, such as studies on middleboxes [8] and DNS-over-HTTPS.[8]
- Contributions to core distributed systems challenges, including adaptive partitioning for large-scale dynamic graphs [8] and service orchestration.[9]
- Development and analysis of novel frameworks and systems, such as ThermoSim for thermal-aware cloud resource management [9] and Raphtory for temporal graph analysis.[1]
- Early work on software evolution towards SOA.[8]

Prestigious Journal Publications (Last 5 Years: 2020-2025):

Dr. Cuadrado has consistently published in high-quality, peer-reviewed journals. His publications within the last five years include articles in venues such as:

- *ACM Computing Surveys* [15]
- *IEEE Transactions on Cognitive Communications and Networking* [15]
- *IEEE Transactions on Sustainable Computing* [15]
- *IEEE Access* [15]
- *Future Generation Computer Systems* [9]
- *Journal of Systems and Software* [9]
- *Internet of Things* [15]
- *International Journal of Network Management* [15]
- *Journal of Open Source Software* (featuring Raphtory) [15]
- *Proceedings of the ACM on Human-Computer Interaction (CSCW)* [15]
- *Electronics* [38]

The consistent appearance of his work in respected journals and highly selective conferences (such as ACM IMC, PAM, ICDCS, CSCW, identified through highly cited works [8]) attests to the quality and rigor of his research. His recent publication topics heavily feature cutting-edge areas like Edge AI, serverless computing, AI applications in resource management, and particularly temporal graph analysis via Raphtory.[1] The strong citation impact of these recent works confirms their relevance and uptake by the research community, positioning his contributions at the forefront of current advancements in distributed systems and data science.

6. Relevant Research Projects and Funding

Dr. Cuadrado Latasa has actively participated in and contributed to numerous research projects throughout his career, securing funding from various national and international bodies. His project involvement reflects his evolving research interests and his engagement with both Spanish and UK research ecosystems.

General Project Involvement and Funding Landscape:

His early career saw involvement in projects funded by Spanish regional bodies (e.g., Comunidad de Madrid for the e-Magerit project [39]) and European initiatives like ITEA2 (for OSAMI Commons [11]) and the EU's Seventh Framework Programme (FP7 for TRIDEC [33]). This demonstrates experience with diverse funding mechanisms prevalent during his primary affiliation with UPM. Following his appointments at QMUL and The Alan Turing Institute, his recent project activity appears more centered within the UK research landscape, particularly through the Turing Institute.[4] This shift indicates an ability to successfully navigate and secure resources within different national funding contexts.

Highlighted Projects:

While Principal Investigator (PI) status is not explicitly confirmed for all projects based solely on the provided materials, several projects stand out due to their scale, scope, or relevance to his core research:

- **Raphtory Project (Alan Turing Institute):** This represents a major current research endeavor. Dr. Cuadrado is listed as an "Organiser" alongside Prof. Susan Grant-Muller, indicating a leadership role.[4] Funded implicitly through The Alan Turing Institute, the project focuses on developing the Raphtory system into a robust, usable platform for dynamic graph analysis accessible to domain-specific researchers.[4] It involves collaboration with researchers at QMUL and targets initial applications in urban analytics and mobility studies.[4] A related entry at UPM also references Raphtory, suggesting potential cross-institutional links.[20]
- **TRIDEC (Collaborative, Complex and Critical Decision-Support in Evolving Crises):** An EU FP7 Integrated Project running from 2010-2013, TRIDEC focused on building an intelligent geo-information management infrastructure for collaborative decision-making in crises (e.g., tsunamis) and industrial processes (e.g., drilling).[33] QMUL was a partner, and Dr. Cuadrado contributed expertise related to Big Data aspects within the project's scope.[33] Although predating the last five years, this project highlights experience in large-scale, multi-partner European collaborations.
- **OSAMI Commons (Open Source Ambient Intelligence):** An ITEA2 project involving multiple international partners, including UPM.[11] It aimed to develop an open-source platform for dynamic ambient intelligence services, showcasing early involvement in collaborative, open-technology initiatives.[11]
- **e-Magerit:** Dr. Cuadrado participated in this project funded by the Comunidad de Madrid, which focused on emerging applications for next-generation internet infrastructure.[39]

Table 1: Selected Research Projects (Last 5 Years)

The following table summarizes key project information based on available data, focusing on recent activities. Due to limitations in the provided documentation regarding specific funding details and PI roles for recent projects, Raphtory is the most prominently featured.

Project Title	Role	Funding Source / Program	Duration	International	Budget	Key Partners / Notes	Reference(s)
Raphtory: A practical system for the analysis of dynamic graphs	Organiser	The Alan Turing Institute	Ongoing [4]	UK-based	Not Specified	QMUL involved. Develops Raphtory software for research community use. Urban analytics focus.	[4]

7. Industry Collaboration and Knowledge Transfer

Dr. Cuadrado Latasa's research, situated in areas with direct technological relevance such as distributed systems, cloud/edge computing, network analysis, and large-scale data processing, inherently lends itself to industry application and knowledge transfer. His activities demonstrate a commitment to creating usable technologies and addressing problems relevant beyond academia.

General Overview and Mechanisms:

Knowledge transfer is facilitated primarily through the development and dissemination of open-source software, publications in accessible venues, and participation in projects addressing industry-relevant challenges. While direct consulting or specific industry partnership contracts are not detailed in the provided materials, the nature of the work suggests potential for such engagements.

Highlighted Activities:

- **Raphtory Development and Dissemination:** The Raphtory temporal graph engine is explicitly positioned as a tool developed "for use across academia and industry".[16] Making the software open-source (available via standard Python and Rust package managers [21]) is a direct and significant form of knowledge transfer, enabling industry adoption. The potential involvement of Pometry, seemingly a commercial entity linked to Raphtory development [21], further points towards industry connections or pathways to commercialization. Application areas explored, such as analyzing financial networks (cryptocurrency transactions, anti-money laundering [1]) and urban mobility patterns [4], are of clear interest to various industry sectors.

- **OSAMI Commons Project:** This collaborative ITEA2 project focused on creating an open-source platform for ambient intelligence.[11] Such initiatives inherently involve pre-competitive collaboration and aim to produce building blocks usable by industry players developing AmI solutions.
- **TRIDEC Project:** This project addressed decision support in environmental crisis management and industrial subsurface development (monitoring drilling processes).[33] Working on these application domains implies engagement with problems of direct concern to specific industries (e.g., disaster management agencies, energy sector).
- **Research Context and Applicability:** Early research outputs sometimes referenced specific industry contexts like the financial industry [40] or banking environments [8], indicating that research problems were often motivated by or directly applicable to real-world industrial scenarios. Recent work on AI-driven resource management for cloud, edge, and serverless computing [1] addresses core operational challenges faced by cloud providers and enterprises utilizing these technologies, including applications relevant to Industry 4.0.[1]

A prominent theme in Dr. Cuadrado's knowledge transfer activities is the emphasis on creating applicable, open technology. The development and release of sophisticated tools like OSAMI Commons [11] and Raphtory [21] as open-source software facilitate broad adoption and impact, extending the reach of his research beyond traditional academic publications into practical application by industry users and developers.

Table 2: Selected Industry Collaboration / Knowledge Transfer Activities (Last 5 Years)

This table highlights recent activities with clear industrial relevance or knowledge transfer potential, primarily centered around the Raphtory project and research on advanced computing paradigms.

Activity/Project Title	Role	Partner(s) / Target Audience	Description/Outcome	Duration	Reference(s)
Raphtory Temporal Graph Engine Dev. & Dissemination	Organiser / Developer	Academia & Industry	Development and open-source release (Rust/Python) of a temporal graph engine for large-scale analysis. Potential industry links (e.g., Pometry).	Ongoing	[1]

AI-based Resource Mgmt. for Cloud/Edge/Serverless	Researcher / Author	Industry (Implicit Target)	Research & publications on AI for optimizing resource management in cloud/edge systems relevant to industry (e.g., Industry 4.0 applications).	2020-Pres.	[1]

8. Post-degree Student Supervision

Dr. Cuadrado Latasa has experience supervising doctoral research, contributing to the training of new researchers in his field.

Confirmed PhD Thesis Supervision:

The available documentation confirms his role as **co-director** (codir. tes.) for the following PhD theses completed at Universidad Politécnica de Madrid (UPM), both supervised alongside Dr. Juan Carlos Dueñas López:

- **Dr. Pablo Pancardo García (Completed 2016):** Thesis titled "A proposal for system architecture to integrate scarce-resources wireless sensor networks into ubiquitous environments".[34] Information regarding Dr. Pancardo García's current position is not available in the provided sources.
- **Dr. Rodrigo Garcia Carmona (Completed 2015):** Thesis titled "A proposal for a modular and application-aware autonomic manager of private cloud infrastructures".[34] Information regarding Dr. Garcia Carmona's current position is not available in the provided sources.

Supervision Context:

Supervision of PhD students is a standard expectation for academics holding positions such as Senior Lecturer (QMUL) and Profesor Titular (UPM). It is therefore highly probable that Dr. Cuadrado's supervision activities extend beyond the two specific examples documented in the provided materials. His own doctoral studies were supervised by Dr. Juan Carlos Dueñas López [7], indicating a continuity of mentorship within his academic lineage at UPM.

While the provided information confirms Dr. Cuadrado's engagement in PhD supervision, particularly as a co-director at UPM, the list is likely incomplete. It may not capture students supervised more recently, potentially as primary supervisor, or those supervised during his tenure at QMUL. The available data also lacks information on the career paths of his former doctoral students.

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