



Nikolaos Papadakis

🌐 Nationality: Greek

🏠 1996

📍 Évry-Courcouronnes France

🗣️ Languages: *Greek* (Native)
English (Full Professional)
French (Professional Working)

☎️ +330749204104

@ nikolaos.papadakis@telecom-sudparis.eu

@ papadakni1996@gmail.com

🐙 github.com/papadakni

🔗 gitlab.com/Papadakni

in linkedin.com/in/papadakni/



🌐 www.papadakni.com

Research Interests: Internet of Things, Distributed Systems, Middleware, Artificial Intelligence



PROFESSIONAL EXPERIENCE

Oct 2023- Present	PhD Candidate TÉLÉCOM SUDPARIS / IP PARIS · France 📍	
Nov 2022-Dec 2023	Associate Software Engineer AEGIS IT RESEARCH · Greece 📍	
Nov 2022-Jul 2023	Visiting R&D Engineer TÉLÉCOM SUDPARIS / IP PARIS · France 📍	
Nov 2022-Jul 2023	R&D Engineer FOUNDATION FOR RESEARCH AND TECHNOLOGY · Hellas (FORTH), Greece 📍 Contract- Conducting in-depth research and development activities to create and improve cutting-edge technologies	
Apr 2021-Oct 2022	Graduate Research Assistant FOUNDATION FOR RESEARCH AND TECHNOLOGY · Hellas (FORTH), Greece 📍 Working on the Smart City Bus National Project [ELIDEK] https://smartcitybusproject.github.io/	
Summer 2017	Project Intern FOUNDATION FOR RESEARCH AND TECHNOLOGY · Hellas (FORTH), Greece 📍 Evaluation of the Kreon system (An Efficient Memory-Mapped Key-Value Store for Flash Storage) in Arm based machines	

TEACHING EXPERIENCE

2023-2025	Teaching Assistant TÉLÉCOM SUDPARIS / IP PARIS · France 📍 CSC 4102 Introduction au Génie Logiciel pour applications Orientées Objet 2025 CSC 4255 IoT System Design and Implementation - 2023-2024, 2024-2025	
2020-2022	Teaching Assistant UNIVERSITY OF CRETE, DEPARTMENT OF COMPUTER SCIENCE · Greece 📍 CS-335 Computer Networks (Spring Semester 2022), CS-559 Infrastructure Technologies for Large-Scale Service-Oriented Systems (Winter Semester 2021), CS-380 Algorithms and complexity ((Spring Semester 2020, Spring Semester 2021), CS-110 Calculus I (Winter Semester 2020),	

EDUCATION

2020- 2022	Graduate Degree (M.Sc), Computer Science and Engineering UNIVERSITY OF CRETE · Department of Computer Science 📍 GPA: [EXCELLENT] [8,64/10] Thesis: "ComDeX: A Context-aware Federated Platform for IoT-enhanced Communities" Advisors: Kostas Magoutis, Georgios Bouloukakos	
2014 - 2019	Bachelors of Science (BSc), Computer Science UNIVERSITY OF CRETE · Department of Computer Science 📍 GPA: [VERY GOOD] [6,95/10] Thesis: "Computational pre-processing methods for mass cytometry data" (Grade 10/10) Advisors: Ioannis Tsamardinos, Giorgos Papoutsoglou	

HONORS & AWARDS

- Aug 2025** **“Panos Pardalos” Young Researcher Award**
The 12th International Conference on Energy, Sustainability and Climate Crisis (ESCC 2025) – Rhodes, Greece.
- Mar 2025** **Best Artifact Award**
The 23rd International Conference on Pervasive Computing and Communications (PerCom 2025).
- Jul 2023** **Futur & Ruptures fellowship**
Issued by Direction Scientifique de l’Institut Mines-Télécom
- Mar 2021, Apr 2022** **ICS-FORTH MSc fellowship**
Issued by Institute of Computer Science (ICS) - Foundation for Research and Technology - Hellas (FORTH)
- Jul 2014** **Grant of academic excellence - High School**
Issued by High School of Kalamoti Chios, Greece

PUBLICATIONS

- Nov 2025** **Nikolaos Papadakis**, Athanasios Tsirikas, Fotios Fouskas, Krish Chatterjie, Christian Badolato, Gregory Blanc, Roberto Yus, Kostas Magoutis, and Georgios Bouloukakis. “A Context-Aware Benchmarking Approach for Scenario-Based Evaluation of Smart Devices.” **15th International Conference on the Internet of Things (IoT 2025)**, Vienna, Austria, 2025
- Under Review** **Nikolaos Papadakis**, Georgios Bouloukakis, and Kostas Magoutis. A Context-Aware Middleware for FL-Enabled Collaboration in IoT-Enhanced Communities. **ACM Transactions on Internet of Things (TIOT)**.
- Apr 2025** **Nikolaos Papadakis**, N. Khoder, D. Tuncer, K. Magoutis, and G. Bouloukakis. Adaptive and Interoperable Federated Data Spaces: An Implementation Experience. 20th International Conference on Software Engineering for Adaptive and Self-Managing Systems (SEAMS 2025), Ottawa, Canada, 2025.
- Mar 2025** A. Palma, **Nikolaos Papadakis**, G. Bouloukakis, J. Garcia-Alfaro, M. Sospetti, and K. Magoutis. SHIELD: Assessing Security-by-Design in Federated Data Spaces using Attack Graphs. The 40th ACM/SIGAPP Symposium on Applied Computing (SAC 2025), Sicily, Italy, 2025.
C. Badolato, K. Kullman, **Nikolaos Papadakis**, M. Bhatt, G. Bouloukakis, D. Engel, and R. Yus. Your Smart Home Exchanged 3M Messages: Defining and Analyzing Smart Device Passive Mode. 23rd IEEE International Conference on Pervasive Computing and Communications (PerCom 2025), Washington DC, USA, 2025.
C. Badolato, K. Kullman, **Nikolaos Papadakis**, M. Bhatt, G. Bouloukakis, D. Engel, and R. Yus. **Artifact**: Defining and Analyzing Smart Device Passive Mode. IEEE PerCom Workshops – 23rd International Conference on Pervasive Computing and Communications (PerCom 2025), Washington DC, USA, 2025.
- Nov 2024** **Nikolaos Papadakis**, G. Bouloukakis, and K. Magoutis. Enabling IoT-enhanced Data Models for Context-Aware Hydropower Plants. 14th International Conference on the Internet of Things (IoT 2024), Oulu, Finland, 2024.
- Apr 2024** **Nikolaos Papadakis**, Georgios Bouloukakis, and Kostas Magoutis. CCDUIT: A Software Overlay for Cross-Federation Collaboration between Data Spaces. The 21st IEEE International Conference on Software Architecture (ICSA 2024), Hyderabad, India, 2024
- June 2023** **Nikolaos Papadakis**, Georgios Bouloukakis, and Kostas Magoutis ComDeX: A Context-aware Federated Platform for IoT-enhanced Communities. The 17th ACM International Conference On Distributed And Event-Based Systems (DEBS), Neuchatel, Switzerland, 2023
Nikolaos Papadakis, Georgios Bouloukakis, and Kostas Magoutis, Demo: ComDeX Unveiled Demonstrating the Future of IoT-Enhanced Communities. The 17th ACM International Conference On Distributed And Event-Based Systems (DEBS), Neuchatel, Switzerland, 2023
Houssam Hajj Hassan, Georgios Bouloukakis, Denis Conant, Ajay Kattapur, Mahdi Trabolsi, **Nikolaos Papadakis**, Djamel Belaid, and Kostas Magoutis, (DEMO) EDICT: A Simulation Tool for Performance Metrics Datasets in IoT Environments The 19th Annual International Conference on Distributed Computing in Smart Systems and the Internet of Things (DCOSS-IoT), Coral Bay, Pafos, Cyprus, 2023
- Feb 2023** Georgios Bouloukakis, Chrysostomos Zeginis, **Nikolaos Papadakis**, Kostas Magoutis, George Christodoulou, Chrysanthi Kosyfaki, Konstantinos Lampropoulos, and Nikos Mamoulis SmartCityBus - A Platform for Smart Transportation Systems The 16th ACM International Conference on Web Search and Data Mining (WSDM), Singapore, 2023, <https://doi.org/10.1145/3539597.3575781>
- Nov 2022** **Nikolaos Papadakis**, Georgios Bouloukakis, and Kostas Magoutis. Enabling Dynamic Smart Spaces using IoT-enhanced NGSI-LD Data Models. The 3rd IoT Connected World/Web Semantic Interoperability Workshop (CWSI) Delft, Netherlands, 2022.
- Nov 2022** Georgios Bouloukakis, Chrysostomos Zeginis, **Nikolaos Papadakis**, Panagiotis Zervakis, Dimitris Plexousakis, and Kostas Magoutis. Enabling IoT-enhanced Transportation Systems using the NGSI Protocol. The 12th International Conference on the Internet of Things (IoT), Delft, Netherlands, 2022, <https://doi.org/10.1145/3567445.3567460>



ATTENDED SEMINARS & CONFERENCES

- Aug 2025** The 12th International Conference on Energy, Sustainability and Climate Crisis (ESCC 2025) – Rhodes, Greece
- Apr 2025** The 20th International Conference on Software Engineering for Adaptive and Self-Managing Systems (SEAMS 2025) – Ottawa, Canada
- Nov 2024** The 14th International Conference on the Internet of Things (IoT 2024) – Oulu, Finland
- June 2023** The 17th International Conference on Distributed and Event Based Systems (DEBS 2023) - Neuchâtel, Switzerland
- Nov 2022** The 12th International Conference on the Internet of Things (IoT 2022) - Delft, Netherlands
- Nov 2022** 3rd Connected World/Web & Semantic Interoperability Workshop (CWSI 2022) - Delft, Netherlands
- Mar 2022** The 20th International Conference on Pervasive Computing and Communications (PerCom 2022) - Virtual
- Nov 2020** Online Webinar, CYBERWISER.eu Webinar Series - #3: Phishing - Virtual
- Apr 2018** Career Seminar “Accenture meets university of Crete” - Heraklion Crete, Greece
- Feb 2018** Seminar “Oracle Academy Day” - Heraklion Crete, Greece

TALKS

- Aug 2025** "A Modular Data Exchange Framework for the Digital Modernization of Hydropower Infrastructure" - The 12th International Conference on Energy, Sustainability and Climate Crisis (ESCC 2025) – Rhodes, Greece
- May 2025** "Flash Talk and Poster Session: Thesis Presentation", Futur, Ruptures et Impact Doctoral Showcase – IMT, Palaiseau, France
- Apr 2025** "Adaptive and Interoperable Federated Data Spaces: An Implementation Experience", "SPARQ: A QoS-aware Framework for Mitigating Cyber Risk in Self-Protecting IoT SystemsFULL", The 20th International Conference on Software Engineering for Adaptive and Self-Managing Systems (SEAMS 2025) – Ottawa, Canada
- Nov 2024** "Enabling IoT-enhanced Data Models for Context-Aware Hydropower Plants", The 14th International Conference on the Internet of Things (IoT 2024) – Oulu, Finland
- June 2023** ComDeX: A Context-aware Federated Platform for IoT-enhanced Communities, Demo: ComDeX Unveiled Demonstrating the Future of IoT-Enhanced Communities., The 17th International Conference on Distributed and Event Based Systems (DEBS 2023) - Neuchâtel, Switzerland
- Nov 2022** "Enabling IoT-enhanced Transportation Systems using the NGSI Protocol", The 12th International Conference on the Internet of Things (IoT 2022) - Delft, Netherlands
- Nov 2022** "Enabling Dynamic Smart Spaces using IoT-enhanced NGSI-LD Data Model", The 3rd Connected World/Web & Semantic Interoperability Workshop (CWSI 2022) - Delft, Netherlands
- Sep 2022** "ComDeX: A Context-aware Federated Platform for IoT-enhanced Communities", Master Thesis Defence - Virtual

LANGUAGE CERTIFICATIONS

- Oct 2011 **French, PARIS SORBONNE C1**
CERTIFICAT PRATIQUE DE LANGUE FRANÇAIS · Université Paris IV - Sorbonne 
- May 2011 **English, Certificate of Proficiency in English**
C2 · University of Michigan 

PROGRAMMING & DIGITAL SKILLS

- ★★★★★ C, C++, Python, Git, Internet of Things, Data Modeling, Machine Learning
- ☆★★★★ Java, R, HTML/CSS, Matlab, LaTeX, Bioinformatics, Amazon Web Services (AWS)
- ☆☆★★★★ SQL, Assembly, Databases, Digital Forensics, Game Design/Game Engines, Microsoft Office
- ☆☆☆☆★★ Pattern Recognition, Applied Mathematics
- ☆☆☆☆★ Pearl, Javascript, 3D Modeling (Blender)

REFERENCES

- Kostas Magoutis** Associate Professor, Computer Science Department University of Crete, Greece
✉ magoutis@csd.uoc.gr
- Georgios Bouloukakis** Assistant Professor University of Patras, Greece
✉ gbouloukakis@upatras.gr