

Kamal Bouhassoune

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<https://www.bouhassoune.com>

Passionate about acquiring and sharing theoretical and applied knowledge. My research interests include, but are not limited to:

- Security and privacy for Digital Twins
- Distributed programming, storage and networks.
- Game theory for complex systems modeling.
- Applied statistics and data-driven inference and learning.

Degrees

Ph.D. in Computer Science, with honors	Nov. 2024
Hassan First University, Faculty of Sciences and Techniques of Settat, Greater Casablanca Region, Maroc	
Master of Science in Business Development, Edhec Business School de Lille, France	Oct. 2013
Master of Engineering Computer Science and Statistics Polytechnic School of Engineering part of the University of Lille, France	Oct. 2006
High School Diploma, Mathematical Sciences Ziri Ibn Attia High School, Oujda, Morocco	Jun. 2001

Experiences

Research : Hassan First University, Faculty of Sciences and Techniques of Settat	Sep. 2018 - Present
<i>Ph.D. and research</i> , Computer science, Networks, Mobility et Modeling Laboratory	Settat, Greater Casablanca, Maroc
<ul style="list-style-type: none">• Conduct research on computer science and mathematics fields.• Publish findings in peer-reviewed and indexed journals and present at international conferences.• Mentor graduate and undergraduate students in related research areas and corporate internships.• Contribute to the organization of international conferences.	
Lecturing : EFREI Paris Engineering School, Paris Panthéon Assas University	Sep. 2016 - Jun. 2018
<i>Lecturer</i> , Software Engineering and Business Intelligence Departments	Villejuif, Greater Paris, France
<ul style="list-style-type: none">• Introduction to Business Intelligence et Analytics (ST2IBI) Master's Year 2 Spring 2018<ul style="list-style-type: none">- Instructed students in the principles of construction and modeling for BI systems.- Guided the examination and comparison of tool families for creating dictionaries, models, and data feeds.- Taught techniques for decisional (data warehouse) modeling.• Collaborative Tools and Platforms (ST2CT) Master's Year 2 Fall 2017<ul style="list-style-type: none">- Instructed on configuring and customizing the presentation and business logic layers of enterprise software suites.- Technical stack : Java, JavaScript, XML, XSL, Cvs/Svn, Git/GitHub• Entreprise Risk Management (ST2GRE) Master's Year 2 Fall 2017<ul style="list-style-type: none">- Assumed teaching responsibilities following a colleague's medical leave.- Evaluated and graded student examinations.• Big Data Processing and Visualization (ST2BDPV) Master's Year 1 Spring 2017<ul style="list-style-type: none">- Directed research on data-driven processing and decision-making solutions.- Supervised the construction of data models and related reports.- Organized session with Amazon corporate representatives.- Technical stack: Oracle, SQL, Git/GitHub, Talend.• Advanced Databases (ST2BDA) Master's Year 1 Fall 2016 and 2017.<ul style="list-style-type: none">- Delivered instruction on database systems, covering relational and non-relational (NoSQL) models- Provided training in SQL and PL/SQL development, and essential Oracle database administration.	
<i>Internship supervision</i> , Information Systems Architecture Department.	
<ul style="list-style-type: none">• Monitored student progress and validated acquired competencies through report assessment and thesis defense supervision.<ul style="list-style-type: none">- Supervised 6 Master's Year 2 students Spring 2018- Supervised 2 Master's Year 1 students Spring 2017	

Software industry : Integration and development of Enterprise Resource Planning solutions <i>Inneosoft, Founder and Managing director</i>	Sep. 2006 - Present France 2017 - Present
<ul style="list-style-type: none"> Delivered complex, multi-year projects with budgets up to €2.5M, teams of up to 150 staff, and durations of 18 to 32 months. Led the design and implementation of software infrastructure, including large-scale data and platform migrations. Mentored junior colleagues and end-users, developing custom software tools to meet stakeholder needs. 	
<i>Independent consultant</i>	France 2013 - 2017
<ul style="list-style-type: none"> Analyzed and optimized key operational workflows (procurement, logistics, sales) to improve process integrity. Led critical system migration projects and stabilized core technical infrastructure to ensure reliability. Managed strategic resource acquisition and implemented mobile technology solutions to enhance operational efficiency. 	
<i>Generix group, from developer to delivery manager</i>	France and Belgium Sep. 2006 - 2012
<ul style="list-style-type: none"> Coordinated with external partners to execute major software migrations and system implementations. Conducted technical audits of enterprise applications and web services, evaluating system performance and scalability. Designed and led proof-of-concept studies and provided specialized technical consultation for project planning. Implemented and optimized warehouse management and commercial software systems to support operational workflows. Provided technical leadership to development teams to ensure stable system deployments. 	

Responsibilities et participations

<i>International Journal of Blockchains and Cryptocurrencies (IJBC)</i>	Aug. 2020 - Present
<ul style="list-style-type: none"> Review manuscripts on blockchain technologies, their applications, and regulations. Evaluate submissions according to criteria of Inderscience journal publisher. 	
<i>The 4th Int. conference on Artificial Intelligence and Smart Data Science (AISDS'2025) Marrakesh, Marocco</i>	Dec. 2025
<ul style="list-style-type: none"> Presented our contribution in the session “AI for Security and Trustworthy Systems”. Chair the session “AI for Computer Vision and Image-Based Applications”. Reviewed papers as a member of the Technical Program Committee. 	
<i>The 3rd Int. conference on Artificial Intelligence and Computer Vision, Marrakesh, Marocco</i>	Mar. 2023
<ul style="list-style-type: none"> Received and coordinate with the Indian delegation. Contributed to logistical and organizational activities. 	

Faculty Development Programs

• Gen AI and Agentic AI : Redefining Intelligence for Tomorrow. BN Institute of Technology, Bangalore, India	Nov. 2025
• The 3 rd Edition of the TUM Blockchain & Cybersecurity Salon, Technische Universität München, Germany	May. 2025
• Multimodal Generative AI : Techniques and Applications. Benett University, Noida, India	May. 2025
• Mean-Field Game Theory (<i>Prof. Tembine</i>). Winter School Ensias, Rabat, Morocco	Dec. 2024
• Mean-Field Game Theory and blockchains (<i>Prof. Tembine</i>). Winter School Ensias, Rabat, Morocco	Jan. 2024
• Understanding Embeddings for Natural Language Processing. Open HPI, Potsdam, Germany	Mar. 2024
• Knowledge Graphs - Foundations and Applications. Open HPI, Potsdam, Germany	Oct. 2023
• Quantum Machine Learning with IBM Quantum. Open HPI, Potsdam, Germany	Feb. 2023
• One Week Python Programming Workshop. JIS College of Engineering, India	Aug. 2021
• An Introduction to Process Mining (<i>Pr. Mathias Weske</i>). Open HPI, Potsdam, Germany	May. 2021
• Blockchain - Revealing the Myth (<i>Prof. Christoph Meinel</i>). Open HPI, Potsdam, Germany	Mar. 2021
• ATAL Academy Online Faculty Development Program on Artificial Intelligence. IILM Academy, India	Jan. 2021
• ATAL Academy Online Faculty Development Program on Blockchain. AMITY University, Noida, India	Dec. 2020

Capabilities

Trilingual on English, French and Arabic.

Computer science :

- Programming : C | Java | PL/SQL | Python | JavaScript | Solidity and Rust
- Platforms et tools : Jupyter Notebook | Git/GitHub
- Enterprise Resource Planning : SAP | Oracle JD Edwards | Generix suite
- Data processing : Python | R | MS VBA

Management :

- Knowledge transfer : Training | Stakeholder support | Dissemination of change and innovation.
- Project management : Budget monitoring and defense | Technical audit and coordination.
- Enterprise software integration : ERP expertise | Migration | End-to-end deployment and implementation.
- Process engineering : Analysis | Business process modeling | Optimization.

Publications

- **Bouhassoune, Kamal**, Sam Goundar, and Abdelkrim Haqiq. "Towards Secure and Auditable Agentic AI Using Blockchain: A Review and Taxonomy." In Proceedings of the 4th International Conference on Artificial Intelligence and Smart Data Science. 2025. Forthcoming.
- **Bouhassoune, Kamal**, Sam Goundar, and Abdelkrim Haqiq. "Blockchain-enabled Peer-to-peer Value Capture: A Fair Transaction Mechanism." IAENG International Journal of Computer Science 52, no. 11. 2025: 4280–90.
- **Bouhassoune, Kamal**, Sam Goundar, and Abdelkrim Haqiq. "Classification of Sources for Blockchain Value Creation: A Review of Financial Technology Taxonomies." In Business Intelligence and Information Technology: BIIT 2023, edited by Aboul Ella Hassanien, Dong Zheng, Zheng Zhao, and Zhiyuan Fan, 117–27. Smart Innovation, Systems and Technologies, vol. 394. Singapore: Springer, 2024. https://doi.org/10.1007/978-981-99-8612-5_12.
- **Bouhassoune, Kamal**, Sam Goundar, and Abdelkrim Haqiq. "Blockchain for Smart Healthcare: A SWOT Analysis from the Patient Perspective." In Intelligent Systems Design and Applications: ISDA 2022, edited by Ajith Abraham, Sabri Pllana, Gabriella Casalino, Kun Ma, and Anu Bajaj, 550–60. Lecture Notes in Networks and Systems, vol. 716. Cham: Springer, 2023. https://doi.org/10.1007/978-3-031-27499-2_52.

Referees

- **Prof. Sam Goundar**,
 - ✓ Computer Science Program Director, and associate Professor.
 - ✓ University of Central Asia, 310 Lenin Street, Naryn 722918, Kyrgyzstan
 - ✓ e-mails : sam.goundar@ucentralasia.org
- **Prof. Abdelkrim Haqiq**,
 - ✓ Founder and director of the Computer, Network, Mobility and Modeling Laboratory
 - ✓ Professor of Mathematics
 - ✓ Hassan First University, Faculty of Sciences and Techniques of Settat, Greater Casablanca Region, Morocco
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