

Senior Consultant in University Cooperation, Digital Education and Innovation

Professional profile

Senior consultant and computer science PhD with experience in university leadership, international educational cooperation, digital learning, learning analytics, institutional governance, emerging technologies and partnerships between Francophone and Anglophone institutions in West Africa.

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From 2024 to July 2026, I served as Assistant Vice President for Research, Innovation and Discovery at William V. S. Tubman University in Liberia. My work included research governance, institutional policy, ethics procedures, digital systems, faculty support and international partnerships.

I now work as a senior consultant at the intersection of university cooperation, digital education and innovation. I am particularly interested in programmes that strengthen African universities through durable institutional partnerships, responsible technology and practical capacity building.

Areas of expertise

- **University cooperation:** partnership design, institutional liaison, mission preparation, agreements, follow-up and intercultural mediation.
- **Research governance:** policies, university committees, ethics procedures, research support, quality and grant processes.
- **Digital education:** learning management systems, online assessment, teacher development, learning analytics and responsible uses of artificial intelligence.
- **Institutional systems:** analysis and development of university information systems, student administration workflows and digital documentation.
- **Data and software:** Python, JavaScript, SQL, Bash, R, PHP, Java, C++, Haskell, Emacs Lisp and NetLogo; PostgreSQL, MySQL and MariaDB; Linux administration.
- **Languages:** French native speaker; English used professionally; basic knowledge of Spanish, Italian, Russian, Arabic and Dioula.

Professional experience

Assistant Vice President for Research, Innovation and Discovery

William V. S. Tubman University

Harper, Liberia

2024–July 2026

- Chaired the University Senate Research and Scholarship Committee and the committee that established the institutional ethics board, then served as the board's secretary-general.
- Drafted institutional policies, procedures, forms and documentation for research, ethics, quality and university governance.



- Supported digital assessments, timetabling and the development of student-information and academic-management systems.
- Led the university FabLab and Orange start-up incubator and contributed to faculty and student work on responsible uses of artificial intelligence.
- Developed links with universities and higher-education institutions in Côte d'Ivoire and supported international institutional visits and representation.

Mathematics teacher

French Ministry of National Education, Lycée de La Herdrie

Basse-Goulaine, France

2023–2024

- Taught secondary-school mathematics.

Mathematics and computer science teacher; digital-learning coordinator

Lycée International Jean-Mermoz

Abidjan, Côte d'Ivoire

2014–2023

- Taught mathematics and computer science and acted as a resource person for educational technology.
- Led the school computer club and designed, administered and maintained the institution's website.

Education adviser

Campus France, Institut Français de Côte d'Ivoire

Abidjan, Côte d'Ivoire

2013, 2018, 2019

- Advised and assessed students applying to French higher education, particularly in scientific and technical disciplines.

Doctoral researcher in learning analytics and digital education

Le Mans Université – Institut National Polytechnique Félix Houphouët-Boigny

France and Côte d'Ivoire

2016–2020

- Researched the detection and visualisation of collective dynamics in MOOC discussion forums using learning analytics, social-network analysis, natural-language processing and large-scale data visualisation.
- Published conference papers and a Springer book chapter; received the CSEDU 2019 Best Student Paper Award.

Lecturer in computer science and statistics

Conservatoire national des arts et métiers – ESGT

Le Mans, France

2018–2019

- Led computer science and statistics tutorials for surveying-engineering students.

Co-founder and director

TIKO Informatique

Abidjan, Côte d'Ivoire

2016–2020

- Directed digital services for educational institutions, including content digitisation, websites, institutional communication and workflow tools.



Assistant Professor of mathematics and computer science

William V. S. Tubman University

Harper, Liberia

2010–2012

- Taught mathematics and computer science, created the computer club and designed student-administration tools.

Software engineer

Sopra Group

Tours, France

2007–2008

- Developed enterprise health-insurance management software using Oracle, COBOL and Java.

E-learning researcher

Open Universiteit Nederland

Heerlen, the Netherlands

2006–2007

- Researched learning communities, peer matchmaking and multi-agent simulations; contributed to European research publications.

Mathematics, physics and chemistry programme assistant

UNESCO

Paris, France

2004

- Supported science-programme coordination, documentation and translation at UNESCO headquarters.
- Contributed to preparations for an international conference on Wi-Fi use on developing-country campuses and to scientific capacity-building funding work.

Entrepreneurship and service

Co-founder and director

KOBA Services SARL

Grand-Bassam, Côte d'Ivoire

2023–

- Work on technology education, decentralised technologies, Web3 governance and digital systems.

Civic and professional engagement

- President, West Africa Decentralized Alliance – Côte d'Ivoire.
- Member, Français du Monde, Côte d'Ivoire section; vice-chair of its ecology committee in 2020.
- Africa Code Week ambassador, 2015.



Education

PhD in Computer Science, Technology-Enhanced Learning

Le Mans Université – INP-HB 2020

Thesis defended in November 2020.

University Diploma in Digital Education Research

Université Lille 1 2016

Master's degree in Information, Cognition and Learning

Université Grenoble 1 – Joseph Fourier 2004

Maîtrise in Applied Mathematics and Social Sciences

Université Grenoble 2 – Pierre Mendès France 2003

Licence in Applied Mathematics and Social Sciences

Université Grenoble 2 – Pierre Mendès France 2002

Selected publications and research

- Koné, M., May, M., Iksal, S., & Oumtanaga, S. (2020). “A Collective Dynamic Indicator for Discussion Forums in Learning Management Systems.” In *Computer Supported Education*, Springer, 88–110. https://doi.org/10.1007/978-3-030-58459-7_5
- Koné, M., May, M., Iksal, S., & Oumtanaga, S. (2019). “Towards Visual Explorations of Forums’ Collective Dynamics in Learning Management Systems.” *Proceedings of CSEDU*, 67–78. <https://doi.org/10.5220/0007716000670078>
- Koné, M., May, M., & Iksal, S. (2018). “Towards a Dynamic Visualization of Online Collaborative Learning.” *Proceedings of CSEDU*, 205–212. <https://doi.org/10.5220/0006687202050212>
- Koné, M., Berlanga, A., Sloep, P., & Koper, R. (2007). “A learning community simulation.” *IADIS International Conference on Web Based Communities 2007*.
- Kester, L., Sloep, P., Van Rosmalen, P., Brouns, F., Koné, M., & Koper, R. (2007). “Facilitating community building in Learning Networks through peer tutoring in ad hoc transient communities.” *International Journal of Web Based Communities*, 3(2), 198–205. <https://doi.org/10.1504/IJWBC.2007.014080>
- Kester, L., van Rosmalen, P., Sloep, P., Brouns, F., Koné, M., & Koper, R. (2007). “Matchmaking in learning networks: Bringing learners together for knowledge sharing.” *Interactive Learning Environments*, 15(2), 117–126. <https://doi.org/10.1080/10494820701332663>
- Van Rosmalen, P., Sloep, P., Brouns, F., Kester, L., Koné, M., & Koper, R. (2006). “Knowledge matchmaking in Learning Networks.” *British Journal of Educational Technology*, 37(6), 881–895. <https://doi.org/10.1111/j.1467-8535.2006.00673.x>
- Koné, M. (2020). *Collaviz: a prototype for detecting and visualising collective dynamics in MOOC forums*. Doctoral thesis, Le Mans Université – INP-HB.

Continuing education

- Cardano Blockchain Certified Associate, 2024.
- IBM Skills Network, *What is Data Science?*, 2022.
- University of Michigan, applied text mining, machine learning and data visualisation in Python, 2018.
- HarvardX, *Using Python for Research*, 2017.
- Stanford University, *Cryptography I* and *Introduction to Mathematical Thinking*, 2012.