Ousmane THIARE

FULL PROFESSOR [EXCEPTIONAL CLASS] IN COMPUTER SCIENCE GASTON BERGER UNIVERSITY - SAINT-LOUIS - SENEGAL

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"Minds are like parachutes. They only work when they are open. Louis Pauwels"

ABOUT ME_

Professor Ousmane THIARE has spent most of his academic and professional career at Gaston Berger University (GBU) of Saint-Louis Senegal, an institution of excellence created in January 1990 and Senegal's second public university.

Ousmane THIARE joined GBU in October 1994 and obtained a Diploma of Advanced Studies (DEA) in Applied Mathematics in 2000, after a clear course of study.

In 2002, he decided to strengthen his knowledge outside Senegal, notably at the Polytechnic School of the François Rabelais University of Tours (Polytech'Tours), where he obtained a second DEA, this time in Computer Science. He finished his studies in France with a PhD. in Computer Science at the CY Cergy Paris University in 2007.

In parallel to this brilliant career, Ousmane THIARE was already teaching courses at the same university that so brilliantly trained him, GBU. He was first a full-time Computer science Assistant in 2002, a full-time Assistant Professor in 2008 and then an HDR Senior Lecturer in Computer science between 2010 and 2015. He continues this teaching experience in Nigeria at the African University of Science and Technology (AUST) in Abuja where he has been an Associate Professor since April 2014.

It is in July 2015, that he is consecrated Full Professor of Universities at GBU. In April 2021, Ousmane THIARE becomes a Full Professor of the Universities of Exceptional class!

In addition to this academic experience, Ousmane THIARE was Head of the Computer science department at the Faculty of Applied Sciences and Technology (UFR SAT) between 2007 and 2009, Coordinator of the Post-Graduate in Computer Science in 2011 and then in 2013, Director of the Ousmane Seck Computer Centre. The IT Computing centre has a teaching, research and training mission. It is also responsible for the implementation of the University's computerization program.

Appointed Expert Evaluator of the National Authority for Quality Assurance in Higher Education (ANAQ-Sup) since 2014, he was also a member of the Scientific and Pedagogical Council of the Doctoral School of Sciences and Technologies of GBU between 2014 and 2019.

Professor THIARE has also been the Director of the African Centre of Excellence for Mathematics, Informatics and ICT (ACE-MITIC) between 2017 and 2020. ACE-MITIC is an ambitious World Bank project with a budget of USD 8 million to change the dynamics of access to employment by training a quality workforce while connecting all actors, applicants and other service providers in the fields of Mathematics, Computer Science and Information and Communication Technologies (ICT). Areas in which Gaston Berger University and its Professor have proven expertise.

It is with this rich but comprehensive experience that Professor Ousmane THIARE was appointed, from May 2018 to March 2023, Rector of the University Gaston Berger of Saint Louis, President of the Academic Council of the University. As Rector President of the Academic Council of the University, he was the main responsible for the study programs within the University Gaston Berger. He exercised the function of leadership of the University and was responsible for the formulation and implementation of appropriate operational policies and decisions relating to the institution of higher education, and in accordance with the University's strategic plan. He has been responsible for the

implementation of innovative programs and the adoption of new cutting-edge technologies by the University in order to make it globally competitive. He is responsible for establishing and maintaining mutually beneficial relationships with educational and research institutions, governmental institutions, commercial enterprises, industrial, professional, social, civil society and cultural institutions on a regional and international scale. He has also been the chief authorizing officer of the university's budget.

In December 2021, Professor Ousmane THIARE was elected Full Member of the National Academy of Sciences and Techniques of Senegal (ANSTS) in the Fundamental, Applied and Innovation Sciences (FAIS) section.

From November 2019 to June 2022, Professor Ousmane THIARE led the team that worked on the Scholars Program of the Mastercard Foundation. This program resulted in a funding, over nine (09) years of an amount of USD 37,786,408 or 23.7 billion FCFA. The Scholars Program at Gaston Berger University (GBU) aims to train 1,000 Scholars, 70% of whom will be women, at the undergraduate level in the fields of digital, agriculture, health and engineering by 2030 and to facilitate their transition to dignified and fulfilling work so that they can serve their communities and contribute to Africa's development. At the end of the proposed program, Scholars will become committed leaders in their communities and participate in developing their countries and Africa.

In June 2022, Professor Ousmane THIARE was appointed Director General of the National Cyber-infrastructure for Higher Education, Research and Innovation (CINERI).

However, Ousmane THIARE remains active in research in his preferred fields, namely: distributed systems, distributed resource management, computing grids, cloud computing, mobile ad hoc networks, wireless sensor networks and the Internet of Things (IoT). His various works are published in numerous international journals and conferences that can be discovered by browsing his ⇒ web page.

CURRENT POSITIONS ___

DIRECTOR GENERAL CINERI MESRI - Senegal

NATIONAL CYBER-INFRASTRUCTURE FOR HIGHER EDUCATION, RESEARCH AND INNOVATION (CINERI)

Juin 2022 - Date

- Manage the supercomputer and the data center for higher education and research; $\,$
- Manage the national scientific computing capacities including the TAOUEY supercomputer;
- Implement and administer the Integrated Governance System for Higher Education and Research (SIGESR);
- Manage the infrastructure of the National Education and Research Network (SnRER);
- Set up shared infrastructures for education and research;
- · Contribute to the valorization of scientific research and innovation in the public and private sectors;
- $\bullet \ \ {\rm Contribute} \ \ {\rm to} \ \ {\rm the} \ \ {\rm valorization} \ \ {\rm of} \ \ {\rm scientific} \ \ {\rm research} \ \ {\rm and} \ \ {\rm innovation} \ \ {\rm in} \ \ {\rm the} \ \ {\rm public} \ \ {\rm and} \ \ {\rm private} \ \ {\rm sectors};$
- To ensure the operation of the National Education and Research Network;
- Ensure the administration and management of the national information system for Higher Education, Research and Innovation;
- To propose digital services to public and private companies.

ELECTED FULL MEMBER OF NATIONAL ACADEMY OF SCIENCES AND TECHNIQUES OF SENEGAL Fundamental, Applied and Innovation Sciences Section (FAISS)

ANSTS - Senegal

National Academy of Sciences and Techniques of Senegal (ANSTS)

December 2021 - Date

- Assist and advise the Senegalese State and public and private institutions in the definition and implementation of the National Science and Technology Policy;
- Encourage scientific research, to initiate, impulse and develop programs in the fields of Science and Technology;
- Contribute to the promotion and valorization of the results of Research;
- Stimulate scientific vocations among young people and women;
- Facilitate exchanges with similar organizations;
- Award prizes and scholarships to persons who have distinguished themselves by their work;
- · Contribute to the development of scientific culture and to the rapprochement between Science and Society.

EXPERT-EVALUATOR French National Research

Agency

CALL FOR SPECIFIC PROJECTS - PARTNERSHIPS WITH AFRICAN HIGHER EDUCATION (PEA)

January 2022 - Date

• Evaluate projects submitted in the framework of the call for Partnerships with African Higher Education (PEA) of the French National Research Agency.

Member of the Board Dakar - Senegal

SENIX (Internet exchange point)

August 2023 - Present

Member of the Board Dakar - Senegal

NATIONAL CYBERSECURITY SCHOOL WITH A REGIONAL FOCUS (ENC-VR)

May 2023 - Present

MEMBER OF THE BOARD Dakar - Senegal

SENEGAL CONNECT PARK

January 2024 - Present

FOCAL POINT MINISTRY OF HIGHER EDUCATION, RESEARCH AND INNOVATION (MESRI)

Presidency of the Republic -

Senegal

COORDINATION OF CYBERATTACK DETECTION, WARNING AND RESPONSE ACTIVITIES (CADARCA)

December 2023 - Present

COORDINATOR Gaston Berger University

EUROPEAN PROJECT (ID: 101082391 - CALL: ERASMUS-EDU-2022-CBHE-STRAND-1)

April 2023 - March 2026

• BASIS: Boosting Agricultural Studies in Sub-Saharan Africa

SCIENTIFIC AND TECHNICAL DIRECTOR

Gaston Berger University

Saint-Louis - Senegal
EUROPEAN RESEARCH PROJECT (ID: 101059232 - CALL: HORIZON-CL6-2021-FARM2FORK-01)
July 2022 - June 2026

• URBANE: One Health approaches to support agroecological transformation of peri-urban farming

Gaston Berger University Saint-Louis - Senegal

Saint-Louis - Senegal

DEPARTMENT OF COMPUTER SCIENCE - FACULTY OF APPLIED SCIENCES AND TECHNOLOGY

April 2021 - Date

• Implementation of research projects;

FULL PROFESSOR [EXCEPTIONAL CLASS] IN COMPUTER SCIENCE

- Organization of seminars;
- Supervise PhD thesis;
- · Teaching in different modules.

RESEARCH COMMITTEE MEMBER AND FELLOW PASRC

Pan-African Scientific Research Council (PASRC)

March 2021 - Date

EXPERT EVALUATOR ANAQ-SUP MESRI - Senegal

MINISTRY OF HIGHER EDUCATION, RESEARCH AND INNOVATION (MESRI)

October 2016 - Date

- Evaluating and monitoring higher education institutions with a view to institutional accreditation;
- Evaluate and accredit training programs in Senegalese universities.

SENIOR RESEARCHER IMU UMMISCO IRD - France

INTERNATIONAL MIXED UNIT - INTERNATIONAL LABORATORY FOR MATHEMATICAL AND COMPUTATIONAL MODELING
OF COMPLEX SYSTEMS
Octobre 2013 - Present

International expert in institutional assessment of training courses and / or CAMES

RESEARCH PROGRAMS

CAMES (AFRICAN AND MALAGASY COUNCIL FOR HIGHER EDUCATION)

April 2015 - Date

• Evaluate and accredit international training programs in the CAMES space universities

Associate Professor in Computer science Abuja Campus - Nigeria

African University of Science and Technology (AUST)

July 2013 - Date

VICE-CHANCELLOR (RECTOR), PRESIDENT OF THE ACADEMIC COUNCIL OF THE UNIVERSITY

Gaston Berger University Saint-Louis - Senegal

Mai 2018 - March 2023

GASTON BERGER UNIVERSITY

- To represent the University in all bodies as President of the Academic Council;
- Conclude agreements, contracts or other arrangements between the University and other institutions of higher education competent bodies for educational, research, management or funding purposes;
- Supervising all university programs;
- Coordinate the development of a strategic plan for the operational implementation of Gaston Berger University and ensure that it is translated into appropriate and realistic goals and objectives to be implemented smoothly and successfully;
- Prepare the meetings of the Board of Directors and to ensure the execution of its deliberations;
- Present an annual activity report to the Board of Directors;
- Chair the meetings of the Academic Council and to ensure the execution of its deliberations;
- Develop the university's strategic development plan and quality assurance policy and ensure their implementation once approved by the Board of Directors;
- Ensure the proper administrative and accounting management of all human, material, financial and information resources of the university;
- Exercise hierarchical authority, especially over university staff.

French National Research

Agency

Call for specific projects - Partnerships with African Higher Education - 2 $^{n\,d}$ Edition (PEA2)

January 2022 - April 2023

• Evaluate projects submitted in the framework of the call for Partnerships with African Higher Education (PEA2) of the French National Research Agency.

PROJECT LEAD OF MASTERCARD FOUNDATION SCHOLAR PROGRAM IN GASTON BERGER UNIVERSITY

Gaston Berger University Saint-Louis - Senegal

GASTON BERGER UNIVERSITY OF SAINT-LOUIS - SENEGAL

CO-CHAIR OF THE EXPERT REVIEW COMMITTEE

October 2019 - December 2022

- Train Fellows in the fields of digital, agriculture, health and engineering to serve their communities and contribute to the development of Senegal and Africa;
- Create favorable conditions to enable young people, including women, refugees, displaced persons, and people with disabilities, to make a smooth transition to dignified and fulfilling work and to create opportunities for others;
- Financing obtained: USD 37,786,408 over 09 years.

DIRECTOR OF PUBLICATION OF JOURNAL GLOBAL AFRICA

FULL PROFESSOR IN COMPUTER SCIENCE (CAMES/LAFPT 2015)

Gaston Berger University Saint-Louis - Senegal

Mars 2022 - Date

July 2015 - April 2021

GASTON BERGER UNIVERSITY

Gaston Berger University Saint-Louis - Senegal

DEPARTMENT OF COMPUTER SCIENCE - FACULTY OF APPLIED SCIENCE AND TECHNOLOGY (UFR SAT)

• Implementation of research projects;

- Organization of seminars;
- Supervise PhD thesis;
- Teaching in different modules.

GASTON BERGER UNIVERSITY / WORLD BANK

DIRECTOR OF CEA-MITIC (AFRICAN CENTRE OF EXCELLENCE FOR MATHEMATICS,

Gaston Berger University /

World Bank

INFORMATICS AND ICT)

April 2017 - March 2020

- Enable students to have an adequate training environment with high-level computer, electronics and telecommunications laboratories;
- Enable research teachers to enhance their skills in training and research;
- Integrate Mathematics and ICT into a research / training center with institutions, research centers, private companies and other relevant partners.

SCIENTIFIC AND TECHNICAL DIRECTOR

Gaston Berger University Saint-Louis - Senegal May 2018 - July 2021

Europeen research project (ID: 780229 - H2020-ICT-2017-1)

· WAZIHUB: Accelerating Open IoT and Big Data Innovation in Africa

APRIL 2024

SCIENTIFIC AND TECHNICAL DIRECTOR

EUROPEEN RESEARCH PROJECT (ID: 687607 - H2020-ICT-2015)

• WAZIUP: Open Innovation Platform for IoT-Big Data in Sub-Sahara Africa

Gaston Berger University Saint-Louis - Senegal

February 2016 - January 2019

MEMBER OF THE SCIENTIFIC AND PEDAGOGICAL COUNCIL OF THE DOCTORAL SCHOOL SCIENCES AND TECHNOLOGIES (ED S&T)

ORAL SCHOOL Gaston Berger University Saint-Louis - Senegal

Saint-Louis - Senegal October 2014 - October 2019

EUROPEEN RESEARCH PROJECT (ID: 687607 - H2020-ICT-2015)

• Assign research grants in the different disciplines;

- Propose and select candidates for the different prizes;
- Validate and follow the different teaching modules;
- Implementation and follow-up of PhD Thesis.

USSEIN - KAOLACK

January 2014 - January 2018

COORDINATOR of the Faculty of Basic and Applied sciences

UNIVERSITY OF SINE-SALOUM EL HADJI IBRAHIM NIASS OF KAOLACK (USSEIN)

- Implementation of USSEIN;
- Establishment of the Faculty of Basic and applied sciences;
- Implementation of new training offers;
- Implementation of training models and syllabus.

ASSOCIATE PROFESSOR IN COMPUTER SCIENCE (CAMES/LAFMC COTE A)

Gaston Berger University Saint-Louis - Senegal

July 2010 - July 2015

July 2012 - July 2014

- DEPARTMENT OF COMPUTER SCIENCE FACULTY OF APPLIED SCIENCES AND TECHNOLOGY (UFR SAT)
- $\bullet \ \ {\rm Implementation \ of \ research \ projects};$
- · Organization of seminars;
- Supervise PhD thesis;
- Teaching in different modules.

COORDINATOR OF THE MSc. IN COMPUTER SCIENCE

Gaston Berger University Saint-Louis - Senegal

DEPARTMENT OF COMPUTER SCIENCE - FACULTY OF APPLIED SCIENCES AND TECHNOLOGY (UFR SAT)

- Establish timetables and organize pedagogical distribution;
- Supervise the updates, the management of the rooms in connection with the secretariat;
- Supervise the monitoring of absences;
- \bullet Organizing graduation juries.

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Gaston Berger University Saint-Louis - Senegal

GASTON BERGER UNIVERSITY

November 2013 - November 2016

• Definition and Implementation of the University's IT Policy;

DIRECTOR OF THE IT COMPUTING CENTER OUSMANE SECK (CCOS)

- Establishment of partnerships;
- Implementation of IT projects;
- Search for funding;
- $\bullet\,$ Project manager for the implementation of the GIS of the University;
- Implementation and management of all the university's collective IT resources, and ensuring their coordination with regional and national networks;
- · Ensure the coherence of all IT resources (hardware, software, human resources) of the University;
- Development of the institution's IT standards and norms, compatible with the recommendations of the national working groups;
- Participate in the preparation of the establishment contract with regard to IT resources;
- Management of the IT team.

GASTON BERGER UNIVERSITY REPRESENTATIVE TO THE NATIONAL COMMITTEE ON SCIENCE AND TECHNOLOGY INFORMATION FOR DEVELOPMENT (CODIST)

UNITED NATIONS ECONOMIC COMMISSION FOR AFRICA (UNECA)

Gaston Berger University Saint-Louis - Senegal

June 2013 - November 2017

HEAD OF THE COMPUTER SCIENCE DEPARTMENT

DEPARTMENT OF COMPUTER SCIENCE - FACULTY OF APPLIED SCIENCES AND TECHNOLOGY (UFR SAT)

- Ensure the organization and operation of the teaching;
- Collaborate with educational managers;
- $\bullet \ \ {\rm Supervise} \ \ {\rm knowledge} \ \ {\rm assessments};$
- · Organizing graduation juries.

Gaston Berger University Saint-Louis - Senegal July 2007 - July 2009

APRIL 2024

ASSISTANT PROFESSOR IN COMPUTER SCIENCE (CAMES/LAFMA COTE A)

DEPARTMENT OF COMPUTER SCIENCE - FACULTY OF APPLIED SCIENCES AND TECHNOLOGY (UFR SAT)

- · Provide supervised and practical work of some of the courses taught;
- · Teaching some modules;
- · Supervising students.

ASSISTANT LECTURE (TENURE) IN COMPUTER SCIENCE

DEPARTMENT OF COMPUTER SCIENCE - FACULTY OF APPLIED SCIENCES AND TECHNOLOGY (UFR SAT)

• Provide supervised and practical work of some of the courses taught.

ASSISTANT LECTURER IN COMPUTER SCIENCE

DEPARTMENT OF COMPUTER SCIENCE - FACULTY OF APPLIED SCIENCES AND TECHNOLOGY (UFR SAT)

• Provide supervised and practical work of some of the courses taught.

Gaston Berger University Saint-Louis - Senegal

July 2008 - July 2010

Gaston Berger University Saint-Louis - Senegal

November 2005 - November 2008

Gaston Berger University Saint-Louis - Senegal

November 2002 - November 2005

HONORS & AWARDS _____

KNIGHT IN THE NATIONAL ORDER OF THE LION

Decree No. 2023-742/PR

Presidency of the Republic

Senegal. 2023

EDUCATION _____

Ph.D. IN COMPUTER SCIENCE

DEPARTMENT OF COMPUTER SCIENCE

CY Cergy Paris University
France

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oct. 2003 - june. 2007

POST-GRADUATE (DEA) IN COMPUTER SCIENCE

Polytech'Tours

University François Rabelais

Tours - France 2001 - 2002

POST-GRADUATE (DEA) IN APPLIED MATHEMATICS

DEPARTMENT OF APPLIED MATHEMATICS (UFR MAI)

Gaston Berger University Saint-Louis - Senegal

1999 - 2000

GRADUATE (AEA) IN APPLIED MATHEMATICS

DEPARTMENT OF APPLIED MATHEMATICS (UFR MAI)

Gaston Berger University Saint-Louis - Senegal

1998 - 1999

M.Sc. (Maîtrise) in Applied Mathematics

DEPARTMENT OF APPLIED MATHEMATICS (UFR MAI)

Gaston Berger University Saint-Louis - Senegal

1997 - 1998

B.Sc. (LICENCE) IN APPLIED MATHEMATICS

DEPARTMENT OF APPLIED MATHEMATICS (UFR MAI)

Gaston Berger University Saint-Louis - Senegal

1996 - 1997

ASSOCIATES DEGREES II (DEUG II) IN APPLIED MATHEMATICS

DEPARTMENT OF APPLIED MATHEMATICS (UFR MAI)

Gaston Berger University Saint-Louis - Senegal

1995 - 1996

ASSOCIATES DEGREES I (DEUG I) IN APPLIED MATHEMATICS

DEPARTMENT OF APPLIED MATHEMATICS (UFR MAI)

Gaston Berger University Saint-Louis - Senegal

1994 - 1995

RESEARCH INTERESTS.

- [Res. Int. 1] Internet of Things (IoT)
- [Res. Int. 2] Wireless Sensor Networks (WSN)
- [Res. Int. 3] Mobile and Ad Hoc Networks (MANET)
- [Res. Int. 4] Parallel and Distributed Systems
- [Res. Int. 5] Peer-to-Peer (P2P) Systems
- [Res. Int. 6] Routing and Data replication
- [Res. Int. 7] Grid and Cloud computing
- [Res. Int. 8] Circular economy

RESEARCH PROJECTS_

- [Project 1] Co-PI of the project funded by the Public Diplomacy Section l'Ambassade des USA à Dakar (University Partnerships Initiative (UPI) PAS-DKR-NOFO-FY22-02) "Enhancing computational expertise in Senegal A partnership between Roux Institute at Northeastern University and Gaston Berger University". Estimated Project Cost: USD 150,000.00. 01-10-2023 30-09-2025.
- [Project 2] Coordinator at Gaston Berger University of the European Project (ID: 101082391 Call: ERASMUS-EDU-2022-CBHE-STRAND-1) "BASIS: Boosting Agricultural Studies in Sub-Saharan Africa". Estimated Project Cost: 399,015,212.00 €. 2023-04-01 2026-03-31.
- [Project 3] Coordinator, at Gaston Berger University, of the European Project (ID: 101129023 Call: ERASMUS-EDU-2023-CBHE-STRAND 2) "MASSTER: Managing (South) Africa and Senegal Sustainability Targets through Economic-diversification of Rural-areas". Estimated Project Cost: 800,000,.00 €. 01-03-2024 − 28-02-2027.
- [Project 4] Coordinator, at Gaston Berger University, of the European Project (ID: 101082391 Call: ERASMUS-EDU-2022-CBHE-STRAND-3) "QADoc: Assessment and quality assurance capabilities for doctoral programs and research". Estimated Project Cost: 940,328.00 €. 36 months.
- [Project 5] Partner, at Gaston Berger University, of the European Project (ID: 101129279 Call: ERASMUS-EDU-2022-CBHE-STRAND1) "Elevate-HER: Female Research Empowerment and Academic Career Reinforcement in Senegal Higher Education". Estimated Project Cost: 399,771.00 €. 36 months.
- [Project 6] Partner at Gaston Berger University of the RSIF Junior Investigator Research Award (JIRA) "Robust and Affordable SmartAgri-IoT Technology (Agri-IoT Tech)". Estimated Project Cost: 80,000.00 €. 2023-05-01 2025-04-30.
- [Project 7] Co-PI, at the National Cyber-Infrastructure for Higher Education, Research and Innovation (CINERI MESRI) of the Solidarity Fund for Innovative Projects (FSPI) "Go-Taouey Accelerated start-up of the Supercomputer of Senegal". Estimated Project Cost: 96,600.00 €. 12 mois.
- [Project 8] Scientific and Technical Director at Gaston Berger University of the European Research Project (ID: 101059232 Call: HORIZON-CL6-2021-FARM2FORK-01) "URBANE: One Health approaches to support agroecological transformation of periurban farming". Estimated Project Cost: 5,015,233.75 €. 2018-07-01 2026-06-30.
- [Project 9] Scientific and Technical Director at Gaston Berger University of the European Research Project (ID: 780229 Call: H2020-ICT-2017-1) "WAZIHUB: Accelerating Open

- IoT and Big Data Innovation in Africa". Estimated Project Cost: 2,367,606.88 €. 2018-05-01 2021-07-31.
- [Project 10] **Director** of the African Center of Excellence for Mathematics, Informatics and Communication Technologies (CEA-MITIC). Projet funded by the World Bank. Estimated Project Cost: 8 million US Dollar. 05-04-2017 31-03-2020.
- [Project 11] Scientific and Technical Director at Gaston Berger University of the European Research Project (ID: 687607 Call: H2020-ICT-2015) "WAZIUP: Open Innovation Platform for IoT-Big Data in Sub-Sahara Africa". Estimated Project Cost: 2,799,662.50 €. 2016-01-01 2019-01-01.
- [Project 12] Research Project Leader of "Wireless Sensor Networks applied to large-scale environmental surveillance of insects invasion in Sub-Sahara Africa". Research project funded by FIRST (Fond d'Impulsion de la Recherche Scientifique et Technique). Funding of 30,000 €. 2013-01-06 2017-31-05.
- [Project 13] Member of the Research Project "Wireless Sensor Networks and RFID technology against cattle theft". Research project funded by FIRST (Fond d'Impulsion de la Recherche Scientifique et Technique). Funding of 25,000 €. 2014-12-05 2016-12-05.
- [Project 14] Project Partner "Implementation of socio-economic infrastructure for distributed development approach knowledge". Funding Unesco-HP: US Dollar 45,000 on 2010–2012 and AUF $49,600 \in$ on 2012 2013.

PUBLICATIONS _

ACADEMIC RESEARCH DATABASES

IEEE XPLORE	DBLP	GOOGLE SCHOLAR
RESEARCHGATE-STAT	RESEARCHGATE-SCORE	AD SCIENTIFIC INDEX

BOOK

2010

[Livre 1] O. Thiare, "Exclusion mutuelle de groupe dans les systèmes distribués", PhD Thesis defended in 2007 and published in book form by Editions Universitaires Européennes ISBN: 978-613-1-50521-8, Amazon, 164 pages, May 2010.

BOOK CHAPTERS

- [Book chapter 1] A.A.A. Ari, N. Yekoniya, J.E.Z. Gbadoubissa, A.N. Njoya, L.N. Wamba, O. Thiare, S.K. Kallel and A.M. Gueroui, "Correlation clustering adapted for cell site management of mobile networks in developing countries", *Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering (LNICST)*, *Springer*, vol. 566, pp. 108-127, April 2024.
- [Book chapter 2] M. Djam-Doudou, A.A.A. Ari, B.H. Tchapgnouo, A.M. Gueroui, N. Labraoui, O. Thiare, A. Mohamadou, "A lightweight authenticated key agreement scheme for resource-constrained devices based on implicit certificates and finite graphs", Lecture Notes of the Institute for Computer Sciences, Social Informatics and

Telecommunications Engineering (LNICST), Springer, vol. 566, pp. 128-155, April 2024.

2023

- [Book chapter 3] AAA. Ari, F.Y. Dtissibe, A.N. Njoya, H. Abboubakar, A.M. Gueroui, O. Thiare and A. Mohamadou, "Flood forecasting in the Far-North region of Cameroon: A comparative study of machine learning and deep learning methods", Lecture Notes on Data Engineering and Communications Technologies (LNDECT), Vol. 185, Springer, Cham., pp. 143-158, October 2023.
- [Book chapter 4] AAA. ARI, A.N. NJOYA, B.H. TCHAPGNOUO, **O. Thiare** AND A.M. GUER-OUI, "Towards a lightweight cryptographic key management system in IoT sensor networks", *Lecture Notes on Data Engineering and Communications Technologies* (LNDECT), Vol. 185, Springer, Cham., pp. 29-45, October 2023.
- [Book chapter 5] A.N. Njoya, I.E.B. Maidadi, A.A.A. Ari, W. Abdou, S.K. Kallel, **O. Thiare**, A.M. Gueroui and E. Tonye, "Towards Intra-cluster Data Prediction in IoT for Efficient Energy Consumption", *Lecture Notes on Data Engineering and Communications Technologies (LNDECT)*, Vol. 185, Springer, Cham., pp. 75-89, October 2023.
- [Book chapter 6] E. Effah, **O. Thiare** and A.M. Wyglinski, "The Agricultural Internet of Things Ecosystem", *MDPI Encyclopedia*. Category: Computer Science, Hardware & Architecture, August 2023.
- [Book chapter 7] M. Djam-Doudou, AAA. Ari, JHM. Emati, AN. Njoya, **O. Thiare** and AM. Gueroui, "A certificate-based pairwise key establishment protocol for IoT resource-constrained devices", Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering (LNICST), vol. 459. Springer Nature Switzerland AG 2023, pp. 3-18, February 2023.
- [Book chapter 8] AN. Njoya, UN. Yefou, AAA. Ari, Rockfeller, AC. Djedouboum, W. Abdou and O. Thiare, "Reinforcement Learning-Based Dynamic Path Allocation in IoT Systems", Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering (LNICST), vol. 459. Springer Nature Switzerland AG 2023, pp. 19-38, February 2023.

2022

[Book chapter 9] HL. Razafindralambo, S. Kouhounde, K. Adeoti, M. Mounir, A. Giusti, P. Refinetti, A. Otu, E. Effa, B. Ebenso, VO. Adetimirin, JM. Barceló, **O. Thiare** and HN. Rabetafika, "Applications and Action Mechanisms of Probiotic-Based Multi-Components", *MDPI Encyclopedia*, 19 pages, September 2022.

2020

- [Book chapter 10] FY. Dtissibe, AAA. Ari, C. Titouna, **O. Thiare** and AM. Gueroui, "Flood fore-casting based on an artificial neural network scheme", *Natural Hazards*, *Springer Nature B.V. 2020*, 27 pages, August 2020.
- [Book chapter 11] E. Effah and O. Thiare, "Realistic Cluster-based Energy Efficient and Fault-Tolerant (RCEEFT) Routing Protocol for Wireless Sensor Networks (WSNs)", Arai K., Kapoor S., Bhatia R. (eds) Advances in Information and Communication.

 Advances in Intelligent Systems and Computing, vol 1129. Springer, Cham, pp. 320-337, February 2020.

2019

[Book chapter 12] M. Diop, C. Pham, and **O. Thiare**, "A 2-hop LoRa Approach based on smart and Transparent Relay-Device", *Springer Nature Switzerland AG 2019. Book*

Title "e-Infrastructure and e-Services for Developing Countries" LNICST 275, pp. 24-34, February 2019.

2016

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- [M.Sc. 1] Cyrille Kesiku, "Deep learning IoT risk monitoring" African Institute for Mathematical Sciences (AIMS), Mbour (Senegal). February 2021.
- [M.Sc. 2] Ya Jabou Sanyang, "Comprehensive E-Healthcare System for Edward Francis Small Teaching Hospital (EFSTH)", Department of Computer science, University of the Gambia (UTG). February 2018.
- [M.Sc. 3] Gbenga Adebayo, "Study and implementation of a Wireless sensor networks to manage energy in a smart home", Department of Computer science, African University of Science and Technology (AUST) Abuja-Nigeria. 2016-2017.
- [M.Sc. 4] Eze Chijioke, "Security and Privacy in Internet of Things: Models, Algorithms, and Implementations", Department of Computer science, African University of Science and Technology (AUST) Abuja-Nigeria. 2016-2017.
- [M.Sc. 5] Naby Ndiaye, "Implementation of a digital working environment solution", Department of Computer science, UFR SAT, Gaston Berger University of Saint-Louis. 2015-2016.
- [M.Sc. 6] El Hadji Mamadou Dieng, "Implementation of modules PREVU PAY, PREVU HOSPI-TAL, PREVU ENROL and PREVU SERVER of a membership management software", Department of Computer science, UFR SAT, Gaston Berger University of Saint-Louis. 2015-2016.
- [M.Sc. 7] Ohida Sefiyat, "Implementation of New Fault Tolerance Solution in a Wireless Sensor Networks in a Multi-Channel Context", Department of Computer science, African University of Science and Technology (AUST) Abuja-Nigeria. 2015-2016.
- [M.Sc. 8] Odo Christian Maduabuchi, "Wireless sensor networks for environmental monitoring applications", Department of Computer science, African University of Science and Technology (AUST) Abuja-Nigeria. 2015-2016.
- [M.Sc. 9] AfolabiBello Oluwayemis, "Quality of Service and NFC Communications Security of Applications dedicated to Dependent People", Department of Computer science, African University of Science and Technology (AUST) Abuja-Nigeria. 2015-2016.
- [M.Sc. 10] Asulba Barikisu Ahmed, "Group Mutual Exclusion in Opportunistic network", Department of Computer science, African University of Science and Technology (AUST) Abuja-Nigeria. 2015-2016.
- [M.Sc. 11] Adebajo Fisayomi Yetunde, "Detection of Denial service Attack in Wireless sensor networks", Department of Computer science, African University of Science and Technology (AUST) Abuja-Nigeria. With Dr. Dame Diongue. 2013-2014.
- [M.Sc. 12] Ousmane Dieng, "Detection of denial service in Wireless sensor networks", Department of Computer science, UFR SAT, Gaston Berger University of Saint-Louis. With Dr. Dame Diongue. 2013-2014.
- [M.Sc. 13] Cheikh Brahim Ould Moctar Ould Mohamed, "Development of a WEB application for the rent management of CROUS", Department of Computer science, UFR SAT, Gaston Berger University of Saint-Louis. 2013-2014.
- [M.Sc. 14] Serigne Fall, "Implementation of family cluster ans traceability of actions of project SIGCNSS (Information System of the National Security Social)", Department of Computer science, UFR SAT, Gaston Berger University of Saint-Louis. 2013-2014.
- [M.Sc. 15] Moustapha Mbengue, "Establishment of a system of inventory management and asset for the social security fund", Department of Computer science, UFR SAT, Gaston Berger University of Saint-Louis. 2012-2013.

- [M.Sc. 16] Modou Ndiaye, "Management of the registry office of Patte d'oie municipality", Department of Computer science, UFR SAT, Gaston Berger University of Saint-Louis. 2012-2013.
- [M.Sc. 17] Rougui Ly, "Analysis and design of software for performance management of human resources", Department of Computer science, UFR SAT, Gaston Berger University of Saint-Louis. 2012-2013.
- [M.Sc. 18] Abdou Kane Diagne and Serigne Fall, "A Platform processing XML Documents", Department of Computer science, UFR SAT, Gaston Berger University of Saint-Louis. 2012-2013.
- [M.Sc. 19] Illiassou Adamou Abdelmadjid et Khady Seck, "Implementation of a web platform for the management, monitoring and evaluation funding from FNPJ", Department of Computer science, UFR SAT, Gaston Berger University of Saint-Louis. 2012-2013.
- [M.Sc. 20] Ibou Ndione, "Analysis and design of software for human resources performance", Department of Computer science, UFR SAT, Gaston Berger University of Saint-Louis. 2012-2013.
- [M.Sc. 21] Babacar Diop, "Management coverage targets in wireless sensor networks", Department of Computer science, UFR SAT, Gaston Berger University of Saint-Louis, With Dr. Dame Diongue. 2012-2013.
- [M.Sc. 22] Alimatou Dieye, "Design of a tool for decision support for receipts Senelec", Department of Computer science, UFR SAT, Gaston Berger University of Saint-Louis, 2011-2012.
- [M.Sc. 23] Mouhamadou Bamba Kane, "Extension of GPSR routing on wireless sensor networks for surveillance applications", Department of Computer science, UFR SAT, Gaston Berger University of Saint-Louis. With Dr. EL. S.M. Diop and Prof. Congduc Pham (University of Pau France), 2011-2012.
- [M.Sc. 24] Papa Cheikh Cisse, "Lifetime optimization on wireless sensor networks management", Department of Computer science, UFR SAT, Gaston Berger University of Saint-Louis, 2010-2011.
- [M.Sc. 25] Dame Diongue, "Management and QoS in mesh networks 802.11s", Cheikh Anta Diop University of Dakar, 2009-2010.
- [M.Sc. 26] Cire Sall Ba, "Security and data aggregation in wireless sensor networks", Department of Computer science, UFR SAT, Gaston Berger University of Saint-Louis, 2009-2010.
- [M.Sc. 27] Abdou Aziz Ndiaye, "Preserving energy in wireless sensor networks", Department of Computer science, UFR SAT, Gaston Berger University of Saint-Louis, 2009-2010.
- [M.Sc. 28] Ahmed Wade, "Sensor-actuator networks: architecture and performance", Department of Computer science, UFR SAT, Gaston Berger University of Saint-Louis, 2009-2010.

DOCTORAL STUDIES

Subject: Group mutual exclusion in Distributed systems

Abstract: Group mutual exclusion is an interesting generalization of the mutual exclusion problem. This problem was introduced by Joung, and some algorithms for the problem have been proposed by incorporating mutual exclusion algorithms. Group mutual exclusion occurs naturally in a situation where a resource can be shared by processes of the same group, but not by processes of different groups. It is also called the "congenial talking philosophers problem". An example of application interesting is a CD jukebox (documentation, films...) on Internet: several users wishing to reach same CD will be able to do it at the same time instead of awaiting the end of the request of the other users.

Effective solutions, written in the message passing model and based on the quorums on the one hand and the circulation of token on the other hand are presented in this thesis. We tackle also the

problem of the mutual exclusion of group on the ad hoc mobile networks and we have proposed an algorithm which is sensitive to link formation and link breaking and thus which is suitable for ad hoc mobile networks.

Keywords: Mutual exclusion, Group mutual exclusion, Quorum, Ad Hoc Networks.

Defended on June 25^{th} , 2007 to Paris in front of the following committee:

First and last name	Title	University	Role
Christian LAVAULT	Professor	University of Paris 13	Chairman
Jean Frederic MYOUPO	Professor	University of Amiens Picardie Jules Verne	Referee
Abdelmadjid BOUABDALLAH	Professor	U.T.C Compiegne	Referee
Mohamed NAIMI	Professor	CY Cergy Paris University	Supervisor
Mary TEUW NIANE	Professor	Gaston Berger University of Saint-Louis	Inspector
Mourad GUEROUI	Professor	University of Versailles Saint-Quentin Inspector	
Laurent AMANTON	Professor	University of Le Havre	Inspector

Thesis Master II Numerical Analysis

<u>Dissertation Title</u>: Exact Controllability of viscoelastic bodies. UFR SAT Gaston Berger University of Saint-Louis (Senegal), under the supervision of Professor Abdou Sene. 2001.

Thesis Master II Computer Science

<u>Dissertation Title</u>: Association rules. Antenne de Blois University François Rabelais of Tours (France), under the supervision of Professor Arnaud Giacometti. 2002.

Memory Master I Applied Mathematics

<u>Dissertation Title</u>: Grid of polygonal field of \mathbb{R}^2 . Gaston Berger University of Saint-Louis (Senegal), under the supervision of Professor Samuel Ouya. 1998.

TECHNICAL PROGRAM COMMITTEE MEMBERSHIP -

The complete list is available in Technical Program Committee and Reviewer

- 2024 · · · Technical Program Committee (TPC) Member and Reviewer, CSNT
- Technical Program Committee (TPC) Member and Reviewer, IJCDS, IEEE CICN, CNCT
- CNST
- 2022 ... Technical Program Committee (TPC) Member and Reviewer, ICSECC, ISMODE, IEEE CICN, SAIN, MobiApps, IJAI, IJECE
- $2021 \cdots \frac{\text{Technical Program Committee (TPC) Member and Reviewer, CSNT, BEEI, 3ICT, IJAI, IJECE}$
- 2020 · · · TPC Member and Reviewer, IJAI, IJCDS, BEEI, CSIT
- 2020 · · · TPC Member and Reviewer, IEEE/PIMRC
- 2019 · · · TPC Member and Reviewer, MobiApps 2019
- 2015 · · · TPC Member and Reviewer, DPNoC 2015, ICEPIT, ISWTA, ISIEA
- TPC Member and Reviewer, REEGETEC, ICOST, ADVCIT, ISTMER, I4CT, $2014 \cdots$
- ICOCOE
- 2013 · · · TPC Member and Reviewer, PDPTA, IADIS/MCCSIS
- TPC Member and Reviewer, IEEE ICOS, HPCS, IEEE ICIIC, IEEE NISS, IEEE
 - NCM, IEEE IDC, IEEE INC, IEEE ICIS
- $2009 \cdot \cdots$ TPC Member and Reviewer, TNS, IEEE WCNC, IEEE ICADIWT

ELITE PANEL OF INTERNATIONAL JOURNALS EDITORIAL MEMBERSHIP __

The complete list is available in Journals

- 2015 · · · Reviewer, Journal of Grid Computing
- 2015 · · · Reviewer, The Journal of Supercomputing
- 2021 · · · Reviewer, IEEE Access
- $2021 \cdots$ Associate editor, International Journal of Intelligent Instrumentation and Computing (IJIIAC)
- 2021 ... Associate editor, International Journal of Informatics and Communication Technology (IJ-ICT)
- 2021 · · · Reviewer, International Journal of Artificial Intelligence (IJ-AI)
- $2021 \cdots$ Reviewer, IEEE International Conference on Innovation and Intelligence for Informatics, Computing and Technologies (IEEE/3ICT)
- 2020 · · · Reviewer, IEEE Access
- $2013 \cdots$ Editorial Board Member, International Journal of Internet and Distributed Systems (IJIDS)
- $2013 \cdot \cdots$ Editorial Board Member, International Journal of Internet and Distributed Systems (IJCNCS)
- 2013 · · · Editorial Board Member, International Journal of Digital Content Technology and its Applications (JDCTA)
- $2015 \cdots$ Editorial Board Member, International Journal of Research and Reviews in Applied Sciences (IJRRAS)
- 2016 ... Editorial Board Member, International Journal of Computational Intelligence and Information Security (IJCIIS)
- $2015 \cdots$ Editorial Board Member, Journal of Theoretical and Applied Information Technology (JATIT)
- 2014 · · · Editorial Board Member, International Journal of Reviews In Computing (IJRIC)
- $2014 \cdots$ Editorial Board Member, Advances in Information Sciences and Service Sciences (AISS)
- 2013 · · · Editorial Board Member, Journal of Convergence Information Technology (JCIT)
- 2013 · · · Editorial Board Member, Journal of Next Generation Information Technology (JNIT)

TEACHING_

Since I have been in the Computer Science department, I have been involved in a lot of teaching. The subjects covered are based on the following topics:

- [Teach 1] Emerging technologies, Master II Computer Science, Department of Computer science, Faculty of Applied Science and Technology, Gaston Berger University of Saint-Louis Senegal.
- [Teach 2] Wireless and Distributed Systems, Master II Computer Science, African University of Science and Technology, Abuja Campus Nigeria.
- [Teach 3] Distributed Algorithmic, Master I Computer Science, Department of Computer science, Faculty of Applied Science and Technology, Gaston Berger University of Saint-Louis Senegal.
- [Teach 4] Concurrent and Parallel Programming, Master II Computer Science, Department of Computer science, Faculty of Applied Science and Technology, Gaston Berger University of Saint-Louis Senegal.
- [Teach 5] Distributed Algorithmic, Master II Computer Science, Department of Computer science, Faculty of Applied Science and Technology, Gaston Berger University of Saint-Louis

- Senegal.
- [Teach 6] Graph Theory, Master II Master II Computer Science, Department of Computer science, Faculty of Applied Science and Technology, Gaston Berger University of Saint-Louis Senegal.
- [Teach 7] Distributed Systems, Master II Computer Science, Department of Computer science, Faculty of Applied Science and Technology, Gaston Berger University of Saint-Louis Senegal.
- [Teach 8] Distributed applications , MADSI I Computer Science, Department of Computer science, Faculty of Applied Science and Technology, Gaston Berger University of Saint-Louis Senegal.
- [Teach 9] Mathematics for Computer science, Bachelor Computer Science, Department of Computer science, Faculty of Applied Science and Technology, Gaston Berger University of Saint-Louis Senegal.
- [Teach 10] Computing engineering, Bachelor Computer Science, Department of Computer science, Faculty of Applied Science and Technology, Gaston Berger University of Saint-Louis Senegal.
- [Teach 11] Numerical Methods for PDE, Master I Applied Mathematics, Department of Computer science, Faculty of Applied Science and Technology, Gaston Berger University of Saint-Louis Senegal.
- [Teach 12] Data Analysis, Bachelor in Computer Science and MAIF, Department of Computer science, Faculty of Applied Science and Technology, Gaston Berger University of Saint-Louis Senegal.
- [Teach 13] Operational research, Bachelor in Computer Science and MAIF, Department of Computer science, Faculty of Applied Science and Technology, Gaston Berger University of Saint-Louis Senegal.
- [Teach 14] Algorithmic I, Associates Degrees (DEUG I) MAI-MPI-MASS, LPGI I, Department of Computer science, Faculty of Applied Science and Technology, Gaston Berger University of Saint-Louis Senegal.
- [Teach 15] Algorithmic II, Associates Degrees (DEUG II) MAI-MPI-MASS, Department of Computer science, Faculty of Applied Science and Technology, Gaston Berger University of Saint-Louis Senegal.
- [Teach 16] Language C, Associates Degrees (DEUG II) MAI-MPI-MASS, Department of Computer science, Faculty of Applied Science and Technology, Gaston Berger University of Saint-Louis Senegal.
- [Teach 17] Computer Science, Master I Economics, University Cheikh Anta Diop of Dakar Senegal
- [Teach 18] Analysis, Associates Degrees (DEUG I and II) Economics, University Cheikh Anta Diop of Dakar Senegal.

The table below shows all of my teaching activities.

Course	Public	Type of education
Emerging technologies	MSc.	Lecture, Practical work
Distributed systems	MSc.	Lecture
Distributed algorithmic	MSc.	Lecture
Concurrent and Parallel Programming	MSc.	Lecture
Distributed and Wireless systems	MSc.	Lecture
Distributed algorithmic	MSc.	Lecture
Graph theory	MSc.	Lecture
Distributed applications	MSc.	Lecture, Tutorial, Practical work
Data Analysis	BSc.	Lecture, Tutorial, Practical work
Mathematics for Computer science	BSc.	Lecture, Tutorial
Computing engineering	BSc.	Lecture, Tutorial, Practical work
Language C	BSc.	Tutorial, Practical work
Algorithmic	BSc.	Lecture, Tutorial, Practical work
Algorithmic 2	BSc.	Tutorial, Practical work

PROFESSIONAL ACTIVITIES ____

Project evaluation and appraisal mission of "PEA TCHAD"

AGENCE NATIONALE DE LA RECHERCHE (FRANCE)

Project evaluation and appraisal mission of "PEA IMPACT"

AGENCE NATIONALE DE LA RECHERCHE (FRANCE)

Course: Robotic Process Automation for Leaders

SINGAPORE COOPERATION PROGRAMME TRAINING AWARD

Participating in HUAWEI CONNECT 2023.

HUAWEI

Training in setting up collaborative projects for the European Research and Innovation Framework Program for the 2021-2027 programming period Horizon Europe | Pillar 2.

French National Research Institute for Sustainable Development (IRD)

Member of the committee of experts for the institutional accreditation of Amadou Mahtar MBOW University (UAM)

NATIONAL QUALITY ASSURANCE AUTHORITY (ANAQ-Sup)

Visit to Supercomputing centers

CRIANN (ROUEN), ROMEO (REIMS), CINES (MONTPELLIER), GENCI AND IDRIS (PARIS)

African Centers of Excellence Workshop (ACE I & ACE IMPACT)

DIRECTOR OF ACE-MITIC

INSTA - Tchad

N'Djamena. 17-20 january 2024

Lome Polytechnical School (EPL) Togo

Lome. 31 january-03 february

Civil Service College -Singapour

Singapour. 06-10 november 2023

Shanghai - China

Shanghai. 20-22 september 2023

IRD - France

Marseille. 6-7 september 2023

ANAQ-Sup

Senegal. June 2023

World Bank & AAU

Abuja (Nigeria). 23-29 February

Invitation Prospective workshop for a partnership with the Mastercard Foundation Scholarship Program

VICE-CHANCELLOR OF GASTON BERGER UNIVERSITY OF SAINT-LOUIS

Kigali (Rwanda). 25-28 November 2019

Invitation 3^{rd} Network of Universities of NorthWest Africa and Macaronesia (UNWAM)

VICE-CHANCELLOR OF GASTON BERGER UNIVERSITY OF SAINT-LOUIS

University of Nouakchott Al-Aasriya

Marriott Kigali

Nouakchott (Mauritania). 20-23 November 2019

Invitation for the 10^{th} International Circular Economy Week & Conference

VICE-CHANCELLOR OF GASTON BERGER UNIVERSITY OF SAINT-LOUIS

IfaS (Institute fur angewandtes Stoffstrommanagement)

> Birkenfeld (Allemagne). 20-25 October. 2019

Signing Ceremony: Partnership Agreements between PASET-RSIF African Host Universities and icipe, the RSIF Regional Coordination Unit

Vice-Chancellor of Gaston Berger University of Saint-Louis

World Bank & AUA

Nairobi (Kenya). 4-10 October 2019

African Centers of Excellence Workshop (ACE I)

VICE-CHANCELLOR OF GASTON BERGER UNIVERSITY OF SAINT-LOUIS

World Bank & AUA

Burkina Faso. 7-9 May 2018

Guest Workshop "Digital Agriculture in Africa"

PROFESSOR AT GASTON BERGER UNIVERSITY OF SAINT-LOUIS

World Bank & AUA

INRIA/CIRAD (Montpellier). 3-4

April 2018

• Title of my presentation: Transforming African Agriculture through IoT and Big Data.

Joint ACE I & ACE II Projects Workshop

VICE-CHANCELLOR OF GASTON BERGER UNIVERSITY OF SAINT-LOUIS

World Bank & AUA

Accra (Ghana). 7-9 November 2017

KIST-PASET Partnership Workshop

PROFESSOR AT GASTON BERGER UNIVERSITY OF SAINT-LOUIS

KIST (Korea Institute of Science and Technology)

Séoul (South Corea). 6-12 September. 2017

International conference on Agrobiosciences and digital technology: the challenges of training

PROFESSOR AT GASTON BERGER UNIVERSITY OF SAINT-LOUIS

Agreenium

AgroParistech - Paris. 30 May

African Centers of Excellence Workshop

DIRECTEUR OF ACE-MITIC

World Bank & AUA

Lagos (Nigeria). 16-18 May 2017

Official review of the first year of the WAZIUP project

PROFESSOR AT GASTON BERGER UNIVERSITY OF SAINT-LOUIS

European Union

Brussels (Belgium). 10-11 April

2017

Visiting researcher

Professor at Gaston Berger University of Saint-Louis

LIUPPA Lab

University of Pau (UPPA). 03-09

April 2017

Participation Workshop "Capacity Building on Syllabus Development and Production"

COORDINATOR OF THE FACULTY OF APPLIED FUNDAMENTAL SCIENCES OF USSEIN

USSEIN

Kaolack - Senegal. 13-17 March

Participation in the "Competency-based approach" workshop

COORDINATOR OF THE FACULTY OF APPLIED FUNDAMENTAL SCIENCES OF USSEIN

USSEIN

UCAD - Dakar. 08-12 February

2016

Visiting researcher

PROFESSOR AT GASTON BERGER UNIVERSITY OF SAINT-LOUIS

Dept. of Computer science Oklahoma University

Oklahoma City (USA). October.

PGF-SUP MESRI

Benchmarking mission in Canada on services dedicated to the national network for education and research in Senegal

DIRECTOR OF THE IT COMPUTING CENTER OUSMANE SECK (CCOS)

UQAM Montreal. 05-15 December. 2014

Evaluating member of the selection committee for projects proposed for financing by FIRST (Impulse Fund for Scientific and Technical Research)

PROFESSOR AT GASTON BERGER UNIVERSITY OF SAINT-LOUIS

MESRI

Senegal. February 2014

Gaston Berger University's representative to the national Committee on Science and Technology Information for Development (CODIST)

PROFESSOR AT GASTON BERGER UNIVERSITY OF SAINT-LOUIS

United Nations Economic Commission for Africa (UNECA)

June 2013

$\mathbf{1}^{st}$ African Ministerial Forum on the Integration of ICT in Education and Training

DIRECTOR OF THE IT COMPUTING CENTER OUSMANE SECK (CCOS)

Hotel Ramada Plaza

Tunis. 9–11 December 2013

Panelist at the Workshop Doctoral Education and E-supervision

PROFESSOR AT GASTON BERGER UNIVERSITY OF SAINT-LOUIS

University of Oberta Catalunya

Barcelone - Espagne. 2013

- Present and discuss the importance and pertinence of e-supervision and the academic challenges and opportunities involved:
- Analyse the use of Personal Learning Environments for Doctoral Students (PLEDS) as new models of effective esupervision;
- Share concrete experiences and practice in the field of e-supervision: how does it work; what are the basic principles that should guide e-supervision; what are the challenges (advantages and opportunities or difficulties);
- Identify the institutional actors to involve (programme designers, professors, students and administrators);
- Debate challenges and possible solutions to develop successful e-supervision.

Workshop Projet HP-UNESCO Brain Gain Initiative

DIRECTOR OF THE IT COMPUTING CENTER OUSMANE SECK (CCOS)

CSIR Meraka Institute

Pretoria - South Africa.

December 2011

- Site Administration and Deployment;
- Basic User Training;
- Grid Portals and Application Gateways;
- Registration Authority assignment;
- · Application and cloud computing development.

3^{rd} Euro-Africa Cooperation Forum on ICT Research

PROFESSOR AT GASTON BERGER UNIVERSITY OF SAINT-LOUIS

VTT Finlande

Helsinki - Finlande. 2010

HP-UNESCO Project to contain Brain Gain in Africa

DIRECTOR OF THE IT COMPUTING CENTER OUSMANE SECK (CCOS)

- Configuring Proliant Server and Array Hardware;
- Installing Operating System and Server Support Hardware;
- Storage Solutions for Proliant Server;
- Troubleshooting Proliant Motherboards;
- Grid Computing.

University of Johannesburg

South Africa. December 2009

Postdoc Research 10 month, PRISM Lab.

PROFESSOR AT GASTON BERGER UNIVERSITY OF SAINT-LOUIS

Certificate of the Institute of Mathematical Sciences

Assistant Professor at Gaston Berger University of Saint-Louis

University of Versailles St-Quentin en Yvelines

Paris. September 2009 - May 2010

University Kuame Nkrumah

Accra - Ghana. 2003

Assistant Professor for tutorials and practical work in computer science

Assistant engineer, Department of Computer Science

University François Rabelais

Tours - France. 2001-2002

University Cheikh Anta Diop

Dakar - Senegal. 2000-2001

Treasurer Mathematical Society of Senegal

POSTGRADUATE IN APPLIED MATHEMATICS

COMPETENCIES ____

Languages Python, C/C++, JAVA, Node.JS, Pascal, Omnet++, NS2, LATEX

Networks WAN, IP, VLAN, RCSF

Plateforms Matlab, Maple, Scilab, Castalia

Systems Windows XP/Seven/Server 2008, Linux (Debian)

Word processing Word, Excel, Open Office

Languages French, English

· Reading

Centers of interest

· Sciences, technologies and innovations

• Sport