

# Ousmane SARR

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## ✓ Professional Summary

I am a marine scientist with extensive experience in fisheries resource management, stock assessment, and ecological studies. Highly skilled in data analysis, research presentation, and teaching within international academic settings. Proven expertise in leading and participating in high-impact marine research projects and conferences globally, with strong ties to the African, European and Asian marine science communities.

## ✓ Core Competencies

- **Marine Science:** Stock Assessment, Population Dynamics, Fisheries Management
- **Research & Analysis:** Fisheries Stock Assessment Models (CMSY, LBB, SPMs), Data Collection
- **Aquaculture & Ecology:** Marine Biology, Aquaculture Techniques, Environmental Management
- **Technical Skills:** Data Analysis, R Programming, Scientific Publications, Research Methods

## ✓ Skills & Expertise

- Fisheries Management Plans
- Quality and Value Chains
- Ecology, Biology, Marine Science, Population Dynamics
- Stock Assessment & Management Strategies

## ✓ Education

**2019 – 2023: Ph.D. in Marine Science**, Shanghai Ocean University, China

- Research interest: Fisheries Resources, Stock Assessment, Fisheries Management

**2014 – 2015: Engineer in Fisheries and Aquaculture**, University Cheikh Anta Diop, Dakar, Senegal

- Research interest: Fisheries Resources, Fisheries Management and Aquaculture

**2013: Master's in Fisheries and Aquaculture**, University Cheikh Anta Diop, Dakar, Senegal

- Research interest: Fisheries Resources, Fisheries Management and Aquaculture

**2012: Diploma in Fisheries and Aquaculture**, University Cheikh Anta Diop, Dakar, Senegal

**2009 – 2011: National Diploma of Higher Technician in Fishing and Aquaculture**, National Training Center in Fisheries and Aquaculture, Senegal

- Research interest: Fisheries Resources, Fisheries Management and Aquaculture

## ✓ Professional Experience

**2023 –2025: Post-Doctoral Fellowship**, Shanghai Ocean University, College of Marine Science, China

- Research interest: Fisheries Resources, Stock Assessment, Fisheries Management

### ✓ Tasks and Responsibilities

Execution of Ongoing Projects (Developing Control Rules for Atlantic Bonito Stock in the Senegalese Exclusive Economic Zone (SEEZ) through Management Strategy Evaluation (MSE)). Data collection and data analysis, Manuscript preparation, Project report writing.

### ✓ Other tasks related to project management.

Co-supervise the work of graduate students; Contribution to the Development of Research Programs; Development of funding applications; Writing research papers; Application of Research Knowledge and Innovation and invention based on research results.

**Dec 2023 – Dec 2024: Teaching Assistant & Supervisor**, Shanghai Ocean University, China

- Assisted in teaching marine science courses and supervised graduate students.
- Developed curriculum for fisheries management and environmental sustainability courses.

**Nov 2023 – Feb 2024: Lead Researcher – Biological Data Collection, CRODT, Senegal**

- Led a data collection project on small tuna species within the Senegalese Exclusive Economic Zone (SEEZ).
- Conducted otolith and fin extraction, species measurement, and specimen sexing.

**Feb 2024: Oral Presentation, International Conference on Marine Science and Aquaculture (ICMSA-24), Las Vegas (Online)**

- Delivered a presentation titled "Exploitation Pattern of Atlantic Bonito in West African Waters: Case Study of the Bonito Stock in Senegalese Waters."

**Mar 2024: Oral Presentation, International Conference on Fisheries and Aquaculture (ICFA-24), Miami (Online)**

- Presented on "Multi-Model Approach to Assess Atlantic Bonito in the Eastern Atlantic Ocean: Case Study of the Senegalese EEZ."

**Dec 2022: Oral Presentation, 8th Joint International Symposium, Shanghai Ocean University, China**

- Collaborated on research with Japan's National Fisheries University, presenting findings in marine ecology and fisheries management.

**Dec 2016 – 2019: Production Quality Manager, GIE XELCOM TEROU.P / COPPO Company, Saint Louis, Senegal**

- Oversaw quality control in the production and export of frozen fishery products to Africa, Asia, and America.
- Ensured compliance with HACCP standards and hygiene practices across the production line.

**Aug – Nov 2016: Production Quality Manager, SENEMAR S.U.A.R.L, Dakar, Senegal**

- Managed production quality control for export of fresh fishery products to the European Union.

## ✓ Academic Awards & Honors

- **2023:** Academic Star Award, Shanghai Ocean University
- **2020:** Excellent Volunteer Award, Shanghai Ocean University
- **2021:** Star of the Year for Academic Achievements, Shanghai Ocean University
- **2019-2023:** Inter-governmental PhD Scholarship, China-Senegal

## ✓ Research & Teaching Skills

- Research Tools:

Surplus Production Models (SPMs), CMSY-BSM, JABBA, LBSPR, LBB, Statistical Analysis: R Programming, Generalized Linear Models, Generalized Additive Models, Data Collection & Analysis: Catch-Per-Unit-Effort (CPUE) Standardization, Length-Based Assessment, Competent in MS Office, R programming for data analysis, and scientific modeling tools

- Teaching:

- Fisheries & Environmental Management
- Fishery Biology
- Impacts of Climate Change on Oceans
- Marine Ecosystems & Fish Migration

## ✓ Languages:

- **French:** Native / **English:** Fluent / **Chinese:** Intermediate

## ✓ Interests & Hobbies

- **Sports:** Football, Tennis, Swimming, Athletics
- **Reading:** Romance, Poems, Adventures

## ✓ Research outputs

1- Ousmane Sarr, Jean Fall\*, Malick Diouf, Abdoulaye Loum and Mariame Sagne. Contribution to the study of the use of Natural Blinders in Feeding Tilapia (*Oreochromis*

*niloticus*), *International journal of current Research*, December 2015; IJ

**2-** Richard Kindong, Chunxia Gao, Njomoue Achille Pandong, Qiuyun Ma, Siquan Tian\*, Feng Wu and Ousmane Sarr. Stock Status Assessments of Five Small Pelagic Species in the Atlantic and Pacific Oceans Using the Length-Based Bayesian Estimation (LBB) Method, *Frontiers in Marine Science*; [www.frontiersin.org](http://www.frontiersin.org), doi: [10.3389/fmars.2020.592082](https://doi.org/10.3389/fmars.2020.592082), November 2020;

**3-** Feng W, Richard K\*, Xiaojie D, Ousmane S, Jiangfeng Z, Siquan T, Yunkai L, Bruno T. N. Nsangue. Aspects of the reproductive biology of two pelagic sharks in the Eastern Atlantic Ocean; *Journal of fish biology*, doi: [10.1111/jfb.14526](https://doi.org/10.1111/jfb.14526), September 2020;

**4-** Richard Kindong, Meng Xia, Njomoue Achille Pandong , Ousmane Sarr, Feng Wu, Siquan Tian\*, Xiaojie Dai. All we know about the crocodile shark (*Pseudocarcharias kamoharai*): Providing information to improve knowledge of this species, *Journal for Nature Conservation*; doi.org/10.1016/j.jnc.2021.126039, July 2021;

**5-** Ousmane Sarr, Richard Kindong\* and Siquan Tian\*, Knowledge on the Biological and Fisheries Aspects of the Japanese Sardine, *Sardinops melanostictus* (Schlegel, 1846), *Journal of Marine Science and Engineering*, <https://doi.org/10.3390/jmse9121403>, December 2021;

**6-** Richard Kindong\*, Feng Wu, Ousmane Sarr, Libin Dai<sup>1</sup>, Siquan Tian\*, Xiaojie Dai, Life history of Wahoo, *Acanthocybium solandri*, in the Tropical Eastern Atlantic Ocean – the importance of applying a suite of methods for fisheries assessment in data limited situations, *Oceanological and Hydrobiological Studies*, DOI: [10.2478/oandhs-2021-0000](https://doi.org/10.2478/oandhs-2021-0000). March 2022;

**7-** Ousmane Sarr, Richard Kindong, Siquan Tian, Fambaye Ngom Sow, Momar Ka & Ousmane Niang Seye. Diagnosis of the Senegalese Marine Fisheries Profile during the Last Two Decades: A Perspective toward Fisheries Management, *Reviews in Fisheries Science & Aquaculture*, DOI: [10.1080/23308249.2022.2057184](https://doi.org/10.1080/23308249.2022.2057184), March 2022;

**8-** Richard Kindong, Feng Wu\*, Siquan Tian,\* and Ousmane Sarr, How Well Do ‘Catch-Only’ Assessment Models Capture Catch Time Series Start Years and Default Life History Prior Values? A Preliminary Stock Assessment of the South Atlantic Ocean Blue Shark Using a Catch-Based Model. *Animals* 2022, 12, 1386. <https://doi.org/10.3390/ani12111386>; December 2022;

- 9-** Richard Kindong, Ousmane Sarr, Feng Wu\* and Siquan Tian\*. Length-Based Assessment Methods for the Conservation of a Pelagic Shark, *Carcharhinus falciformis* from the Tropical Pacific Ocean. *Fishes* 2022, 7, 184. <https://doi.org/10.3390/fishes7040184> July, 2022.
- 10-** Richard Kindong\*, Ousmane Sarr, Jiaqi Wang, Meng Xia, Feng Wu, Libin Dai , Siquan Tian\*\*, Xiaojie Dai. Size distribution patterns of silky shark *Carcharhinus falciformis* shaped by environmental factors in the Pacific Ocean. *Science of the Total Environment* 850 (2022) 157927, <http://dx.doi.org/10.1016/j.scitotenv.2022.157927>, August, 2022.
- 11-** Ousmane Sarr, Richard Kindong\*, Fambaye Ngom Sow, Siquan Tian\* Standardized catch per unit effort and size compositions of Atlantic bonito, *Sarda sarda* (Bloch, 1793), harvested by artisanal fisheries in the Senegalese Exclusive Economic Zone (SEEZ). *Fisheries Research* 261 (2023) 106626, <https://doi.org/10.1016/j.fishres.2023.106626>, 17 January, 2023.
- 12-** Ousmane Sarr, Richard Kindong\*, Fambaye Ngom Sow, Siquan Tian\*. Estimation of Atlantic bonito (*Sarda sarda*) stock status in the Senegalese Exclusive Economic Zone (SEEZ) from the catch-based model (CMSY) and length-based bayesian estimation (LBB) method. *Regional Studies in Marine Science*, <https://doi.org/10.1016/j.rsma.2023.103052> 2352-4855/© July 2023
- 13-** Richard Kindong, Feng Wu, Ousmane Sarr, Jiangfeng Zhu. A simulation-based option to assess data-limited fisheries off West African waters. *Scientific Reports* (2023)
- 14-** Richard Kindong, Ousmane Sarr, Njomoue Achille Pandong, Feng Wu, Jiangfeng Zhu, Xiaojie Dai. 2024. Towards sustainable exploitation of European pilchard (*Sardina pilchardus*) stocks off West African waters. [Environmental and Sustainability Indicators](https://doi.org/10.1016/j.envind.2024.100460) Volume 23, September 2024, 100460
- 15-** Zhenhong Zhu, Jianfeng Tong, Minghua Xue a, Ousmane Sarr, Tianji Gao. 2024. Assessing the influence of abiotic factors on small pelagic fish distribution across diverse water layers in the Northwest Pacific Ocean through acoustic methods. *Ecological Indicators* 158 (2024) 111563. <https://doi.org/10.1016/j.ecolind.2024.111563>
- 16-** Richard Kindong, Dongyan Han, Njomoue Achille Pandong, Ousmane Sarr, Feng Wu, Siquan Tian. 2024 European anchovy's abundance, more affected by climatic conditions than fishing activities in the northwest African waters. *Marine Pollution Bulletin* 209 (2024)

117226. <https://doi.org/10.1016/j.marpolbul.2024.117226>

**17-** Abigail Annan, Richard Kindong, Ousmane Sarr, Siquan Tian. 2024. Distribution and CPUE standardization of European Pilchard (*Sardina Pilchardus*) in the Northwest African upwelling waters under varying climatic conditions. *Journal of Coastal Conservation* (2024) 28:84 <https://doi.org/10.1007/s11852-024-01086-7>

**18-** Ousmane Sarr., Kindong, R., Sow, F., Rim EL Amouri, Nfally Sadia Petit Sadio, Tian, S., 2024. Key Biological Information on Atlantic Bonito from Small-Scale Fishery in the Senegal Exclusive Economic Zone. *Aqua. Fish & Fisheries*. 2024-11-16; DOI: [10.1002/aff2.70017](https://doi.org/10.1002/aff2.70017)

**19-** Hui Xu · Yasuzumi Fujimori · Makoto Tomiyasu · Ousmane Sarr · Yuxiao Liang · Yuwei Li · Jieran Shen. 2025. Impact of different spatial scales on standardization of yellowfin tuna (*Thunnus albacares*) CPUE in waters near Micronesia. *Fisheries Science*. <https://doi.org/10.1007/s12562-025-01866-6>

**20-** Ousmane Sarr.; Tian, S., Sow, F., Amouri R. El., Chinwendu I, G., , Nfally Sadia Petit Sadio f,g, Gao, C., Kindong, R. 2025. *Sarda sarda* exploitation status in Western Africa's fishing zone: A case study of the Senegalese bonito population. *Egyptian Journal of Aquatic Research*, <https://doi.org/10.1016/j.ejar.2025.03.001>.