ORCID

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Dr. Demba Jarju

English

Search the ORCID registry

https://orcid.org/

0009-0006-8886-7881

Preview public record

Emails & domains

Email addresses

jarjudemba1@gmail.com

jarjudemba1@yahoo.com

Verified email domains

No verified email domains

Websites & social links

http://www.linkedin.com/in/dr-demba-jarju-a0b68a270

Keywords

Help

1. Artificial intelligence–enabled engineering
2. Climate-resilient infrastructure
3. Electrochemical sensing and energy systems
4. Ethnopharmacology and integrative health
5. Geotechnical and structural engineering
6. Global translational research
7. Systems engineering and innovation leadership
8. Transdisciplinary applied science
9. Nutraceutical Science, Preventive Healthcare, and Medicinal Plants
10. Sustainable Natural Therapeutics and Traditional Medicine

Countries

United Kingdom

Printable version

Names

Published Name

Dr. Demba Jarju

Name

Dr. Demba Jarju

Biography

Everyone

Dr. Demba Jarju, D.Mgt., MCEng, MBA, MPM, CHPE, CPE, FAAPM, WALP—Geotechnical, Infrastructure Engineering & Management; and WALP—Ethnopharmacology & Integrative Health Science.

Founder, Scientific Director, Chief Executive Officer, Principal Investigator & Lead Scientist
ABWs—Ancestral Bio-Wells LTD, Central London, UK.
ORCID: 0009-0006-8886-7881

Executive Profile

Dr. Demba Jarju, D.Mgt., MCEng, MBA, MPM, CHPE, CPE, and FAAPM, is the Founder, Chief Executive Officer, Scientific Director, Principal Investigator, and Lead Scientist of ABWs LTD (Ancestral Bio-Wells LTD), Central London, United Kingdom. He is a multidisciplinary scientist and innovation leader specializing in ethnopharmacology, integrative health sciences, medicinal plants, phytochemistry, nutraceutical development, and translational health research. His work focuses on transforming traditional African medicinal knowledge into evidence-based natural health interventions for preventive healthcare and global well-being.

He is a multidisciplinary engineer and innovation leader specializing in sustainable infrastructure, geotechnical engineering, systems engineering, electrochemical technologies, climate resilience, and engineering management. His work integrates engineering science, artificial intelligence, and sustainability frameworks to develop practical solutions for infrastructure and global development challenges. ORCID: 0009-0006-8886-7881.

Leadership & Institutional Roles

Founder, Scientific Director, CEO, Principal Investigator & Lead Scientist – ABWs LTD (Ancestral Bio-Wells LTD, UK)

Principal Scientist (Research & Innovation) – Innovative Management Sciences LLC

Founder & Managing Engineer (2000–2023) – Demba Construction Services

Academic Qualifications

Doctor of Management (D.Mgt.) – Professional Doctorate

Master of Civil Engineering (MCEng), USA

MBA in Operations & Project Management, UK

Master of Project Management (MPM), USA

Executive Diploma (Level 7)—Strategic Project Management

Higher National Diploma – Construction & Engineering

National Diploma – Civil Engineering

Professional Certifications & Recognition:

Chartered Project Engineer (CHPE)

Certified Planning Engineer (CPE)

Fellow, American Academy of Project Management (FAAPM)

WCI - WALP - World Accredited Lead Practitioner in Geotechnical & Infrastructure Engineering & Management, World Certification Institute, Washington, D.C., U.S.A. (Approved In-Principle)

WCI - WALP - World Accredited Lead Practitioner in Ethnopharmacology and Integrative Health, World Certification Institute, Washington, D.C., U.S.A. (Approved In-Principle)

Certified Scientist – International Institute of Chartered Engineers and Scientists (IICES), USA - "Pending"

Certified Reviewer – ACM, ACS, IOP Publishing

Certified Author in Scientific Communication

Open Researcher & Contributor (ORCID)

Professional Memberships:
ASCE FED - General Forensic Engineering Committee

American Society of Civil Engineers (ASCE)

Geo-Institute (GI)

Structural Engineering Institute (SEI)

American Chemical Society (ACS)

Electrochemical Society (ECS)

American Water Works Association (AWWA)

Engineers Without Borders – USA (EWB-USA)

American Academy of Environmental Engineers and Scientists (AAEES)

International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE)

Institution of Engineering and Technology (IET), UK

Railway Engineering Institute (REI), UK

Research Domains:

Climate-resilient geotechnical and structural systems

Sustainable water and pipeline infrastructure

AI-driven engineering optimization and risk assessment

Biofunctionalized nanostructured electrodes and chemical sensors

Solid-state electrochemical energy systems

Integrative health and ethnopharmacology

Translational science for low-resource and global health contexts

Scholarly Contributions & Service:

Author of peer-reviewed conference papers with ASCE, IET, AWWA, ECS, AWRA, and IMCS-aligned forums

Author of Integration of Sustainable Practices in Project Engineering

Invited Technical Paper Reviewer – ASCE Journal of Structural Design and Construction Practices

Independent Reviewer – iCARDIO Alliance (Global Cardiovascular Research Network)

Global Impact Statement:

Through AW-GTI—Ancestral Bio-Wells LTD—Dr. Demba Jarju advances a mission of scientific sovereignty, ethical innovation, and equitable global development, translating African-origin knowledge systems into internationally validated engineering and health solutions. His work contributes directly to climate adaptation, clean water access, infrastructure resilience, energy innovation, and culturally informed health solutions aligned with global sustainability goals.

Activities

Collapse all

Employment (1)

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time.

Find out more about highlighting affiliations in your ORCID record

ABWs LTD (Ancestral Bio-Wells LTD): Central London, England, United Kingdom, Central London, England, United Kingdom, GB

Everyone

2026-06-13 to 2035-01-21 | Founder, Chief Executive Officer, Scientific Director, Principal Investigator & Lead Scientist (Founder, Chief Executive Officer, Scientific Director, Principal Investigator & Lead Scientist)
URL: https://www.linkedin.com/in/demba-jarju-aOb68a270/
Employment

Show more detail

Source: Dr. Demba Jarju

Education and qualifications (10)

Add Sort

IOP Publishing UK.: London UK., London, GB

Everyone

2025-02-01 to 2036-02-01 | IOP Peer Review Excellence Graduate Badge (IOP's Peer Review Excellence Training and Certification)
Qualification

Show more detail

Source: Dr. Demba Jarju

ACM Publication Board U.S.A.: Washington D.C., Washington D.C., US

Everyone

2025-02-01 to 2036-02-01 | ACM Certified Reviewer (ACM's Peer Review Training and Certification)
Qualification

Show more detail

Source: Dr. Demba Jarju

American Academy of Project Management: Colorado., Colorado Springs, Colorado U.S.A., US

Everyone

2024-01-02 to 2024-07-22 | Chartered Project Engineer (CHPE), Certified Planning Engineer (CPE) (Engineering) Show more detail
URL: http://certifiedprojectmanager.org/
Qualification

Source: Dr. Demba Jarju

American Academy of Project Management (AAPM) U.S.A.: Colorado., Colorado Springs, Colorado U.S.A., US

Everyone

2023-01-08 to 2024-07-22 | PDM, MPM. (Management and Engineering) Show more detail
Education

Source: Dr. Demba Jarju

Atlantic International University: Honolulu Hawaii, Hawaii, US

Everyone

2023-06-08 to 2023-12-30 | Master of civil engineering - Degree (Science and Engineering) Show more detail
URL: http://aiu.ed.org
Education

Source: Dr. Demba Jarju

Athena Global Education: London, England, GB

Everyone

2023-06-04 to 2023-10-30 | MBA in Operations and Project Management (Project Management) Show more detail
Qualification

Source: Dr. Demba Jarju

Athena Global Education: London, England, GB Everyone

2023-06-04 to 2023-10-30 | MBA in Operations and Project Management (Project Management) Show more detail
Qualification

Source: Dr. Demba Jarju

Athena Global Education: London, England, GB Everyone

2023-01-02 to 2023-05-30 | Executive Diploma level 7 in Strategic Project Management (Project Management) Show more detail
Qualification

Source: Dr. Demba Jarju

Shaykh Mahfouz Institute of Technoloy: Banjul, Kanifing Municipality, GM Everyone

2013-01-03 to 2015-12-23 | Higher National Diploma HND/Associate Degree (Construction and Engineering) Show more detail
Education

Source: Dr. Demba Jarju

Shaykh Mahfouz Institute of Professional Studies: Banjul, Kanifing Municipality, GM Everyone

2007-01-02 to 2009-12-22 | National Diploma (Civil Engineering)
Education

Show more detail

Source: Dr. Demba Jarju

Professional activities (6)

Add Sort

The American Society of Civil Engineers ASCE, GI & SEI: Reston, Reston, US

Everyone

2025-10-08 to present | Affiliate (Certified Elected Member)
Membership

Show more detail

Source: Dr. Demba Jarju

The International Society for Soil Mechanics and Geotechnical Engineering ISSMGE: London, England, GB

Everyone

2025-01-02 to present | Tier Member (Professional)
Membership

Show more detail

Source: Dr. Demba Jarju

The American Academy of Project Management AAPM: Colorado Springs, Colorado, Colorado U.S.A., US

Everyone

2024-02-22 to present | Fellow (Certified Member)
Membership

Show more detail

Source: Dr. Demba Jarju

Journal of Structural Design and Construction Practices of ASCE: Reston, Reston, US

Everyone

2024-01-16 to present | Academic Reviewer (Technical Paper) (Journal of Structural Design and Construction Practices)
Invited position

Show more detail

Source: Dr. Demba Jarju

Innovative Management Sciences LLC: Banjul, BRIKAMA KOMBO CENTRAL WCR, GM

Everyone

2024-01-01 to present | Principal Scientist (Research and Innovation) (Management and Engineering)
Service

Show more detail

Source: Dr. Demba Jarju

The Honor Society: Washington, Washington D.C, US

Everyone

2025-05-02 to 2026-05-01 (Basic)
Membership

Show more detail

Source: Dr. Demba Jarju

Funding (0)

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Works (17)

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Select all (17) Items currently selected (0) **Actions**

Sustainable Infrastructure Advancement through Laterite-Based Modified Bitumen Composite

Everyone

ASCE T&DI ICTD Pavements Conference 2026
2026-06-29 | Conference paper | *Writing - original draft*
CONTRIBUTORS: Dr. Demba Jarju

Show more detail

Source: Dr. Demba Jarju

2026 ARMA Symposium - Innovative Geotechnical Approaches for Sustainable Infrastructure:The 60th US Rock Mechanics / Geomechanics 2026 ARMA Symposium - Innovative Geotechnical Approaches for Sustainable Infrastructure: Advancing Rock Mechanics and Geomechanics through Integrated Best Practices

Everyone

The 60th US Rock Mechanics / Geomechanics 2026 ARMA Symposium
2026-06-21 | Conference paper | *Writing - original draft*
CONTRIBUTORS: Dr. Demba Jarju

Show more detail

Source: Dr. Demba Jarju

“Adaptive Protection Strategies for Decentralized Renewable power Networks Using Machine Learning Algorithms

Everyone

IET DPSP Global 2026 Conference
2026-04-28 | Conference paper | *Writing - original draft*
CONTRIBUTORS: Dr. Demba Jarju

Show more detail

Source: Dr. Demba Jarju

Author "The 20th IET International Conference on Development in Power System Protection: Adaptive Protection Strategies for Decentralized Renewal Power Networks Using Machine Learning Algorithms"

Everyone

The 20th IET International Conference on Development and Power System Protection
2026-03-02 | Conference paper | *Writing - original draft*
CONTRIBUTORS: Dr. Demba Jarju

Show more detail

Source: Dr. Demba Jarju

AI-Driven Sustainable Water Distribution Systems:

Everyone

the 3rd International Conference on Sustainability: Developments & Innovations (ICSDI 2026)
2026-02-10 | Conference paper | *Writing - original draft*
CONTRIBUTORS: Dr. Demba Jarju

Show more detail

Source: Dr. Demba Jarju

Author ASCE ICSDI 2026 Call for Submission "AI-Driven Sustainable Water Distribution Systems: A Smart Infrastructure Approach to Urban Resilience"

Everyone

ASCE ICSDI 2026 Call for Sumission
2026-02-08 | Conference paper | *Writing - original draft*
CONTRIBUTORS: Dr. Demba Jarju

Show more detail

Source: Dr. Demba Jarju

Author "Scientific Labeling of Parkia Biglobosa (African Locust Bean Fruit) Extract as Antioxidant, Antimicrobial, and Antihyperglycemic Agent in Integrative Health"

Everyone

African Health Sciences Journal
2025-07-04 | Other | *Writing - original draft*
PAT: WKRD-2025-06-0997
CONTRIBUTORS: Dr. Demba Jarju

Show more detail

Source: Dr. Demba Jarju

Author: Abstract: ASCE EWRI 2026 Low Impact Development Conference

Everyone

2025-05-22 | Conference paper | *Writing - original draft*
CONTRIBUTORS: Dr. Demba Jarju

Show more detail

Source: Dr. Demba Jarju

Author: Abstract: AWRA's 2026 call for Topical Session Proposal for "AWRA's 2025 Annual Water Resources Conference"

Everyone

Topical Session Proposal for AWRA's 2025 Conference
2025-05-21 | Conference paper | *Writing - original draft*
CONTRIBUTORS: Dr. Demba Jarju

Show more detail

Source: Dr. Demba Jarju

Independent Public Reviewer: iCADIO Alliance (Global Cardiovascular and Obesity Research Network)

Everyone

Dr. Demba Jarju
2025-05-19 | Review | *Validation*
CONTRIBUTORS: Dr. Demba Jarju

Show more detail

Source: Dr. Demba Jarju

Author: Book "Turning the Tide: Practical Solutions to Combat Climate change and Build a Resilient Future" Everyone

Turning the Tide
2025-02-01 | Book chapter | *Writing - original draft*
CONTRIBUTORS: Dr. Demba Jarju

Show more detail

Source: Dr. Demba Jarju

Reviewer Everyone

Journal of Structural Design and Construction Practices
2025-01-16 | Journal article | *Writing - review & editing*
CONTRIBUTORS: Dr. Demba Jarju

Show more detail

Source: Dr. Demba Jarju

Indie Author Everyone

Integration of Sustainable Practices in Project Engineering
2024-11-04 | Book chapter | *Writing - original draft*
Part of ISBN: 9798230460978
CONTRIBUTORS: Dr. Demba Jarju

Show more detail

Source: Dr. Demba Jarju

Author: Abstract "International Airfield and Highway Pavement" Everyone

Journal of Transportation and Development Institute of ASCE
2024-09-04 | Journal article | *Writing - original draft*
CONTRIBUTORS: Dr. Demba Jarju

Show more detail

Source: Dr. Demba Jarju

Author: Abstract "Innovative Approaches to Project Planning, Design, and Procurement in Membrane Technology"

Everyone

AWWA 2025 Membrane Technology Conference
2024-07-10 | Conference paper | *Writing - original draft*
CONTRIBUTORS: Dr. Demba Jarju

Show more detail

Source: Dr. Demba Jarju

Author: Abstract "SEI of ASCE Transmission Lines and Substations Structures and Foundations Conference 2025

Everyone

SEI of ASCE Transmission Lines and Substation Structures and Foundations Conference 2025
2024-07-05 | Conference paper | *Writing - original draft*
CONTRIBUTORS: Dr. Demba Jarju

Show more detail

Source: Dr. Demba Jarju

Author: Abstract "SEI of ASCE Transmission Lines and Substations Structures and Foundations Conference 2025

Everyone

SEI of ASCE Transmission Lines and Substation Structures and Foundations Conference 2025
2024-07-05 | Conference paper | *Writing - original draft*
CONTRIBUTORS: Dr. Demba Jarju

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Source: Dr. Demba Jarju

Peer review (2 reviews for 1 publication/grant) Sort

Review activity for **Practice periodical on structural design and construction.** (2) Everyone

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