

Obuks Ejohwomu, PhD, MSc, BEng | FNSE, FHEA
Academic (Teaching & Research) Reader in Sustainable Built Environment &
Project Management
Infrastructure and Resilience
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Overview

Obuks Ejohwomu is a Reader (Associate Professor) and founder of Nudge SIG (Special Interest Group) at The University of Manchester. He is the current Head of Admissions in the School of Engineering, Faculty of Science and Engineering. He is listed as one of Manchester's Heritage Heroes for the impact of his research work. OBUKS is also a fellow of the Higher Education Academy and the unit lead for commercial and procurement management. OBUKS particularly leads a research group focusing on a **future sustainable built environment** with expertise in *decarbonised projects, indoor/outdoor air pollution monitoring using low-cost sensors, occupational health & safety and digitalisation in the built environment*. He is a Better World Showcase 2022 award winner for outstanding contributions to environmental sustainability. An award winner for notable contribution to the fight against the COVID-19 pandemic. He has managed grants valued at over GBP £1.3m, with funders including EPSRC, Association of Project Management (APM), GCRF, Lloyds Register Foundation, NHS Foundation Trust, and UKRI. He is the PI on a high-impact multidisciplinary research project probing the "societal value of quality low-cost urban air monitoring in low resource environments (SQUARE). Before joining MACE he worked as a contracts manager on several building construction projects totalling over N100m (Lukayson Ventures Ltd), a systems engineer in the telemetry and laboratory business area of Scottish Water, Glasgow, Research Assistant on a Black Country learning and skills action research project (University of Wolverhampton), Research Fellow (University of Reading) on the EPSRC Health and Care Infrastructure Research and Innovation Centre (HaCIRIC), Programme Manager (W D Consults Ltd), Lecturer in Civil Engineering (Covenant University), Senior Lecturer in Project Management and Head, Department of Management Technology (Bells University of Technology). In the past, he has consulted for the likes of Coffey International on DFID projects (Growth and Employment in States (GEMS)) in Nigeria, National Petroleum Investment Management Services (NAPIMS), Nigerian National Petroleum Corporation Staff Cooperative Multipurpose Society, and Pipelines and Products Marketing Company Limited (PPMC). He obtained his BEng degree in Civil Engineering from UNIBEN, MSc in Systems Engineering from Heriot-Watt, and PhD in Construction Engineering and Management from Wolverhampton. Associate Editor - Journal of Engineering, Design and Technology. Guest editor and editorial board member for some of his field's leading journals. Visiting scholars to Kenya, South Africa and Nigeria universities. He is a **Foundation Governor** at St Edmund's Catholic Academy. When the opportunity is available, he enjoys networking and hiking.

PhD Completion (*as PI):

- *Societal value of nuclear decommissioning and remediation.
- *Assessment of user (dis)engagement in the provision of affordable housing: the case of the UK social housing sector.
- A building information modelling maturity model for the South African construction industry.
- *Development of a project risk management framework: a case study of major African economies.
- *Standards-innovation relationship in projects: In the context of ship-recycling in Bangladesh.
- *A hermeneutical approach to social value: A case study of national infrastructure planning in Oman.
- *Development of safety leading and lagging indicators framework for contractor selection in construction projects.
- *Standardizing carbon neutrality in the delivery of complex projects.

Ongoing PhD Supervision (*as PI):

- *Ethics in Stakeholder Engagement for Project Sustainability (Part-Time).
- *Risk analysis of low-carbon technological innovation in reducing building life cycle carbon emissions.
- Exploring governance in construction Circular Economy.
- Improving the cost modelling of environmental, social, governance using artificial intelligence.
- Facilitating the transition to a circular economy for cooling in developing countries.
- *Application of operation science in production and manufacturing to improve integration management on oil and gas capital projects (Part-Time).

- *Bridging digital transformation and environmental, social, and governance (ESG) metrics: insights from the construction business ecosystem.

Employment

Reader

Academic (Teaching & Research) Reader
Civil Engineering and Management
The University of Manchester
1 Aug 2019 → present

External Examiner (PhD),

Cape Peninsula University of Technology
Cape Town, South Africa
1 Feb 2022 → present

External Examiner (PhD),

University of Johannesburg
Johannesburg, South Africa
1 Mar 2020 → present

External Examiner (PhD)

The University of Salford
Salford, United Kingdom
17 Jan 2020 → present

External Examiner (PhD)

University of Bradford
Bradford, United Kingdom
10 Oct 2019 → present

External Examiner (PhD)

Nelson Mandela University
Port Elizabeth, South Africa
8 Aug 2018 → present

External Examiner (PhD)

University of the West of England, Bristol
Bristol, United Kingdom
23 Jul 2018 → present

Grants proposals reviewer for Newton Fund

The British Council
London, United Kingdom
12 Jun 2018 → present

External Examiner (PhD)

University of Bedfordshire
Luton, United Kingdom
2 May 2018 → present

External Examiner (PhD)

University of Wolverhampton
Wolverhampton, United Kingdom

5 Mar 2018 → present

External Adviser School of Architecture and Built Environment

University of Wolverhampton
Wolverhampton, United Kingdom
8 Sept 2017 → present

External Examiner (PhD)

University of Lincoln
Lincoln, United Kingdom
1 Jun 2017 → present

Chair

7th International Conference on Infrastructure Development in Africa (ICIDA 2018).
31 Mar 2017 → 1 Apr 2018

External Examiner (PhD)

Kwame Nkrumah University of Science & Technology
Kumasi, Ghana
1 Jan 2016 → present

External Examiner

University of Johannesburg
Johannesburg, South Africa
1 Jan 2015 → present

Research outputs

Exploring the discrepancy between bribery-related legal and social norms in public project procurement in Nigeria
Olugboyege, O., Ejohwomu, O. & Omopariola, E. D., 22 Jun 2024, (Accepted/In press) *ARCOM Conference 2024: Looking Back to Move Forward 40th Conference and Annual General Meeting*.

Leadership Energy Theory for Sustaining Leadership Competence and Effectiveness

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Determining the stationary Digital Twins Implementation Barriers for sustainable construction projects

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The Climate Emergency: A Tale of two cities

Too, J., Ejohwomu, O., Hui, F., Herath, N. & Duffield, C., 30 Jan 2024, In: *Heliyon*. 10, 2, 16 p., e24294.

Modelling the relationship between digital twins implementation barriers and sustainability pillars: Insights from building and construction sector

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Developing a Social Value Model for Oman's National Infrastructure Planning: A Hermeneutical Approach

Al-Hinai, A., Ejohwomu, O. & Abadi, M., 21 Nov 2023, (E-pub ahead of print) In: *Sustainable and Resilient Infrastructure*. p. 1-39 39 p.

Examining the mediating roles of social malaise and religious manipulations in corruption manifestations: the case of the construction sector

Olugboyege, O., Ejohwomu, O. & Omopariola, E. D., 12 Oct 2023, In: *Engineering, Construction and Architectural Management*. p. 1-27 27 p.

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Project Management Process Barriers Impacting the Delivery of Technology Transition: A Systematic Literature Review

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Project Leadership Functions and the Associated Behaviour for Projects and Project Organisations

Olugboyega, O., Ejohwomu, O., Omopariola, E. D. & Omoregie, A., 10 Jul 2023, (E-pub ahead of print) In: *Buildings*. 13, 7, 18 p., 1739.

A Building Information Modelling Maturity Model for Developing Countries

Adekunle, S. A., Aigbavboa, C., Ejohwomu, O., Thwala, W. D. & Mahamadu, A-M., 7 Jul 2023, Routledge. 140 p.

Accelerating the delivery and exploitation of technical R&D projects: : the limitations of traditional project management process

Bennett, E., Ejohwomu, O., Gale, A. & Saunders, F., 30 Jun 2023, p. 1-10. 10 p.

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Abiodun, O., Abadi, M., Ejohwomu, O. & Manu, P., 28 Jun 2023, (Accepted/In press) *International SEEDS Conference 2023*. SEEDS Conference, 19 p. 326

Project Leadership Functions and the Associated Behaviour for Projects and Project Organizations

Olugboyega, O., Ejohwomu, O., Omopariola, E. D. & Omoregie, A., 8 Jun 2023

Temperature, Humidity and Air Pollution Relationships during a Period of Rainy and Dry Seasons in Lagos, West Africa

Emekwuru, N. & Ejohwomu, O., 21 May 2023, In: *Climate*. 18 p., 113.

Sustainable Ready-Mixed Concrete (RMC) Production: A Case Study of Five RMC Plants in Nigeria

Olugboyega, O., Ejohwomu, O., Omopariola, E. D. & Omoregie, A., 17 May 2023, In: *Sustainability*. p. 1 17 p., 8169.

How Can Decarbonisation Alternatives Be Prioritised to Achieve Carbon Neutrality in Building Projects?

Too, J., Ejohwomu, O., Hui, F., Herath, N. & Duffield, C., 1 May 2023, *Structures Congress 2023: Selected Papers from the Structures Congress 2023*. Soules, J. G. (ed.). American Society of Civil Engineers, p. 247-261 15 p.

Supply chain risk management for improving performance of low-carbon technological innovation in buildings

Gong, Z., Ejohwomu, O., Aminian, E. & Abadi, M., 24 Apr 2023, (Accepted/In press) *Euroma 2023 conference*. Leuven: EurOMA, 11 p. 1622

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The Effect of Pristine Graphene on the Mechanical Properties of Geopolymer Mortar

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Implementing safety leading indicators in construction: Toward a proactive approach to safety management

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Framework for standardising carbon neutrality in building projects

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Ejohwomu, O., Al-Saffar, N., Adekunle, S. A., Oladokun, M., Too, J. & Aigbavboa, C., 19 Jul 2022, In: Preprints.

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Use of nudges across project lifecycle: approach to building project resilience

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The exposure of workers at a busy road node to PM_{2.5}: occupational risk characterisation and mitigation measures

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Sustainability challenges and enablers in resource recovery industries: A systematic review of the ship-recycling studies and future directions

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Why standardize carbon neutrality in delivery of complex projects?

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Ejohwomu, O., Adekunle, S. A. & Bukoye, T., 1 Dec 2021, *The Construction Industry: Global Trends, Job Burnout and Safety Issues*. Nova Science Publishers

Key constraints to optimal BIM penetration among Nigerian Quantity surveyors

Adekunle, S. A., Aigbavboa, C., Ejohwomu, O., Thwala, W. D. & Efiannayi, N., 10 Nov 2021, *Construction Management 50th Anniversary Conference*. . No publisher name

Identification of Health and Safety prequalification criteria for contractor selection in construction projects: A systematic review

Abdul Razak, N., Ejohwomu, O., Fenn, F., Okedara, K., Dosumu, B. & Muhammad-Sukki, F., 3 Nov 2021, In: Energies. 14 , 21, 7244.

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Xu, J., Cheung, C., Manu, P. & Ejohwomu, O., 1 Jul 2021, In: Safety Science. 139, 105250, p. 1-16 16 p., 105250.

A Systematic Review on Development of a Project Cost Estimation Framework: A Case Study of Nigeria

Dosumu, B., Ejohwomu, O. & Yunusa-Kaltungo, A., 24 Jun 2021, *Proceedings of the Construction Business and Project Management Conference Cape Town, South Africa, 24 – 25 June, 2021*. Windapo, A., Aiyetan, A., Umeokafor, N., Okoro, C., Adediran, A. & Mtya, A. (eds.). p. 137 147 p.

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A Case Study of a Negotiated Tender within a Small-to-Medium Construction Contractor: Modelling Project Cost Variance

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SYSTEMATIC ANALYSIS OF DRIVERLESS TECHNOLOGIES

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Evidencing the benefits of Industry 4.0 for the Architecture, Engineering and Construction (AEC) Industry: Promises, practices and unresolved problems

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A resilient approach to modelling the supply and demand of platelets in the United Kingdom Blood supply chain

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BIM Implementation: Articulating the Hurdles in Developing Countries

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Razak, N. A., Ejohwomu, O., Fenn, P., Okedara, K., Dosumu, B. & Muhammad-Sukki, F., 7 Sept 2020, *ARCOM 2020 Conference*. Association of Researchers in Construction Management

Implementing safety leading indicators in construction: insights on relative importance of indicators

Cheung, C., Manu, P., Xu, J., Ejohwomu, O. & Freitas, A., Sept 2020, *CIB WO99 & TG59 International Web-Conference 2020: Good Health, Wellbeing & Decent Work*. p. 26

IMPROVING CONSTRUCTION PROJECT PERFORMANCE IN DEVELOPING COUNTRIES: CONTRACTOR APPROACH

Adekunle, S. A., Aigbavboa, C. & Ejohwomu, O., 1 Jul 2020, *Proceedings of International Structural Engineering and Construction*. Vacanas, Y., Danezis, C., Singh, A. & Yazdani, S. (eds.).

Can we use these masks? Rapid Assessment of the Inhalation Resistance Performance of Uncertified Medical Face Masks in the Context of Restricted Resources Imposed during a Public Health Emergency

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Can Projects be Processual? A Perspective from Ethics in Stakeholder Engagement for Project Sustainability

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Ejohwomu, O., Adekunle, S. A. & Aigbavboa, C., 29 Nov 2019, *Proceedings of the 24th International Symposium on Advancement of Construction Management and Real Estate*. Ye, G., Yuan, H. & Zuo, J. (eds.). 1 ed. Springer Singapore

Challenges of Identity work in Africa's Temporary Organisations: Developing Tsenay Serequeberhan's horizons

Ejohwomu, O. & Igwilo, M., 3 Sept 2019, *British Academy of Management*.

Ethics in Stakeholder Engagement for Successful and Sustainable Project, Business and Organizational Management

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Okedara, K., Ejohwomu, O. & Chan, P., 10 Aug 2019, *The Construction Industry in the Fourth Industrial Revolution: Proceedings of 11th Construction Industry Development Board (CIDB) Postgraduate Research Conference*.

Spatial-temporal dynamics of social value: Lessons learnt from two UK nuclear decommissioning case studies

Mulholland, C., Ejohwomu, O. & Chan, P. W., 17 Jul 2019, In: *Journal of Cleaner Production*. 237, 0, 117677.

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A Hermeneutical Analysis of Brutalism, Equity and Diversity in Innovative Construction

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A review of construction management and economics research outputs in Nigeria: towards a sustainable future

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A conceptual demand led model founded on theories of labour market mismatch for the construction and building services industry.

Ejohwomu, O., Proverbs, D. G. & Olomolaiye, P., Sept 2005, *Proceedings of the 21st ARCOM Annual Conference*. p. 3-12 10 p.

Modelling the supply and demand for construction and building services in the Black Country

Ejohwomu, O. A., Proverbs, D. G. & Olomolaiye, P., 1 Jan 2005, *5th International Postgraduate Research Conference in the Built and Human Environment h*. Salford, p. 116-123 8 p.

Activities

The funding conundrum: what is the true measure of success (or failure)?

Obuks Ejohwomu (Speaker)
29 Sept 2023

Journal of Engineering, Design and Technology (Journal)

Obuks Ejohwomu (Assistant editor)
8 Sept 2023

Architectural Engineering and Design Management (Journal)

Obuks Ejohwomu (Editor), David Edwards (Editor), Abimbola Windapo (Editor) & Felix Hui (Editor)
25 Oct 2022 → 31 Oct 2023

Sustainability (Journal)

Obuks Ejohwomu (Guest editor)
5 Sept 2022 → 29 Feb 2024

Frontiers in Built Environment (Journal)

Obuks Ejohwomu (Guest editor)
1 Aug 2022 → 28 Feb 2023

Lead Keynote Speaker- 12th cidb Postgraduate Research Conference, East London, South Africa

Obuks Ejohwomu (Speaker)
10 Jul 2022

Buildings (Journal)

Obuks Ejohwomu (Associate editor)
17 Apr 2022

Annual Manchester - Africa Business Forum scheduled to take place on Thu, 24 March 2022 between 13:00 - 16:00 GMT.

Obuks Ejohwomu (Speaker)
24 Mar 2022

Air pollution and health burden: unmasking plant and equipment emissions in the built environment

Obuks Ejohwomu (Speaker)
21 Oct 2021

Emerald Publishing Limited (Publisher)

Obuks Ejohwomu (Member of editorial board)
30 Jun 2021 → 30 Jun 2023

Buildings (Journal)

Obuks Ejohwomu (Assistant editor)
14 Apr 2021 → 30 Jun 2022

Engineering Construction and Architectural Management (Journal)

Obuks Ejohwomu (Editor in chief)
1 Jan 2020 → 1 Apr 2021

1.Spatial Dynamics of Social Value and Its Implication for the Nigeria Public Procurement (Amendment) Act 2016.

Obuks Ejohwomu (Speaker)
4 Oct 2019

7th INTERNATIONAL CONFERENCE ON INFRASTRUCTURE DEVELOPMENT IN AFRICA | ICIDA 2018 (Event)

Obuks Ejohwomu (Editor)
31 Mar 2018

7th INTERNATIONAL CONFERENCE ON INFRASTRUCTURE DEVELOPMENT IN AFRICA | ICIDA 2018

Obuks Ejohwomu (Chair)
28 Mar 2018

3RD INTERNATIONAL CONFERENCE ON INFRASTRUCTURE DEVELOPMENT IN AFRICA (ICIDA) 2014

Obuks Ejohwomu (Chair)
1 Mar 2014

Prizes

2019 Taylor & Francis Book and Digital Product Award in the Outstanding Monograph Category

Manu, Patrick (Recipient), Cheung, Clara (Recipient), Yunusa-Kaltungo, Akilu (Recipient) & Ejohwomu, Obuks (Recipient), 19 Jun 2020

Best Paper Award

Abiodun, Oluwapelumi (Recipient), Abadi, Mohamed (Recipient), Ejohwomu, Obuks (Recipient) & Manu, Patrick (Recipient), 29 Aug 2023

Best Paper Award

Ejohwomu, Obuks (Recipient), 15 Nov 2021

Microscoping Carbon Footprint and Standardising Carbon Emission in Africa

Ejohwomu, Obuks (Recipient), 8 Feb 2023

Notable Contribution to the fight against COVID-19 pandemic

Ejohwomu, Obuks (Recipient), 22 Jun 2022

Outstanding contribution to environmental sustainability

Ejohwomu, Obuks (Recipient), 22 Jun 2022

Outstanding Reviewer in the 2021 Emerald Literati Awards

Ejohwomu, Obuks (Recipient), 1 Dec 2021

Teaching Excellence Awards 2021

Ejohwomu, Obuks (Recipient), 16 Sept 2021

The 4Es of carbon-neutral buildings: A standardised approach

Ejohwomu, Obuks (Recipient), 17 Feb 2023

Press/Media

Building sector must be more aware of whole-life carbon

Obuks Ejohwomu

24/08/23

1 item of Media coverage

Built on sand: the need for new environmental standards in the construction industry

Obuks Ejohwomu

2/08/23

1 Media contribution

Construction industry must address whole-life CO2 emissions in buildings, warn academics

Obuks Ejohwomu

22/08/13

1 item of Media coverage

EarthSense Zephyr® Sensor Deployed in Nigeria to Launch Air Quality Monitoring in Low Resource Areas

Obuks Ejohwomu

6/10/20

1 Media contribution

How can the construction industry progress towards net-zero amid challenges?

Judy Too & Obuks Ejohwomu

13/11/23

1 Media contribution

Nigerian scholar receives international recognition over research on blood platelets/

Obuks Ejohwomu

25/03/21

1 item of Media coverage

Project Management in action: rapid PPE testing during the Covid-19 crisis

Obuks Ejohwomu

20/05/20

1 Media contribution

Researchers say respiratory, cardiovascular diseases, main causes of hospitalization in Lagos

Obuks Ejohwomu

4/09/22

1 item of Media coverage

The buzz podcast: Covid-19 FSE report

Obuks Ejohwomu

4/06/20

1 item of Media coverage

University academic praised after helping test PPE equipment for key workers

Obuks Ejohwomu

15/05/20

1 item of Media coverage

Awards

Projects

Impacts