

**John Odhiambo Onyango, Ph.D.**

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**1. HIGHER EDUCATION**

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|             |  |
|-------------|--|
| 2013        | Doctor of Philosophy (Ph.D.) Architecture)<br>University of Glasgow  |
| 1999        | Master of Architecture (M.Arch.)<br>University of Notre Dame   |
| 1998.       | Certificate in Professional Practice and Management in Architecture,<br>(RIBA III-Architecture registration examinations, United Kingdom)<br>University College London |
|             | 1995-1996 I was taking MA in Architecture, Prince of Wales Institute of<br>Architecture, (London, United Kingdom) but opted to transfer to University of Notre<br>Dame |
| 1992        | Bachelor of Architecture (B.Arch.)<br>University of Nairobi (Kenya)  |
| CEC         | University of Idaho, Integrated Design Lab 2013; (EnergyPlus and<br>Radiance Training)   |
| CEC         | University of Miami, IESVE Atlanta; 2015; (IESVE Training)   |
| Certificate | University of Miami, 2013; (Advanced Spanish)  |
| Certificate | University of Miami, 2012; (Level 2 Spanish) Certificate   |
|             | Universidad de Costa Rica, 2004 (Level 2 Spanish)  |
|             | Licensed Architect UK [ARB 064536B], since 1998 and Kenya, [1229], since 1994  |

**2. PREVIOUS POSITIONS, ACADEMIC, ADMINISTRATIVE, PROFESSIONAL and OTHER**

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**Academic**

|  |   |
|--|---|
| Associate Professor in Architecture,                 | University of Notre Dame; USA, 2017-<br>Assistant Professor & Director of Post<br>Professional Programs in Architecture,<br>University of Miami; USA, 2011-16     |
| Lecturer & Theme Leader of Technology & Environment, | Queens University Belfast, UK, 2008 - 2011<br>PhD Researcher/ Teaching Assistant, Mackintosh<br>School of Architecture,<br>Glasgow School of Art, UK, 2006 - 2009 |
| Lecturer,  | United Arab Emirates University; 2002 - 2006  |

**Non-Academic**

|                                     |   |
|-------------------------------------|---|
| Principal,                          | O-Squared Solutions, South Bend, IN; 2019-  |
| Consultant,                         | KJH Architects, Atlanta GA; 2015-19   |
| Senior Architect,                   | Renfrewshire Council, UK; summer 2007; (Part-time)<br>2007 - 2008   |
| Vice President and Project Manager, | Nile Inc. Environmental and Construction,<br>Jonesboro, GA, USA, 2001 - 2002  |
| CAD Architect/ Project Manager,     | Yong Pak & Associates; Atlanta GA, USA, 2000 -2001  |
| CAD Architect,                      | Niles Bolton Associates, Atlanta, GA, USA, 1999 –2000   |
| CAD Architect,                      | Michael Blash Architects, Ketchum, Idaho, USA,<br>Summer and Winter 1998  |
| CAD Architect,<br>Architect,        | Julian Bicknell and Associates, London; UK, 1996 -1997<br>Architerion Architects & Interior Designers, Nairobi,<br>Kenya, 1994 - 1995             |
| Architect,                          | Symbion International Architects & Interior<br>Designers, Nairobi, Kenya, 1992 – 1994.  |
| Architect,<br>Architect,            | Triad Architects Ltd, Nairobi, Kenya, Summer- 1990<br>Shelter Systems International Architects & Project<br>Managers, Nairobi, Kenya, Summer 1989 |
| Architect,<br>1988                  | Jami-Trident Architects, Nairobi Kenya, Summer-1987,<br>1988  |

**3. SCHOLARSHIPS and FELLOWSHIPS**

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**Onyango, J.** Fellow Kellogg Institute for International Studies-University of Notre Dame

**Onyango, J.** Fellow Nanovic Institute of European Studies-University of Notre Dame

**Onyango, J.** Fellow Liu Institute of Asian Studies-University of Notre Dame

**Onyango, J.** Fellow ND Energy-University of Notre Dame

**Onyango, J.** Affiliated Faculty in the Health, Humanities, and Society Program -University of Notre Dame

**Onyango, J.** 2006-2011, “*BECOMING PLACE: Analysis of impacts of urban laboratories on places making in western tradition of urban design,*” Overseas Research Student Award Scheme, (ORSAS) May 2006-submitted March 2011, passed viva July 2011. **Value \$115,700(Tuition and stipend and research activities).**

Bond-Montedonico Fellowship program. Master of Architecture University of Notre Dame,Indiana, USA, August 1997- May 1999. **(Tuition and research activities).**

Kenya Government Scholarship. Bachelor of Architecture degree at the University of Nairobi,September 1986- June 1991. **(Tuition and stipend).**

**4. DISTINCTIONS, HONORS, AWARDS**

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2023 Notre Dame Black Excellence Faculty Award-Dr. Martin Luther King Jr. Walk the Walk.

Shortlisted for Stage 2 of the Brighton & Hove City Council's New Homes for Neighborhoods RIBA Design Competitions April 2015 (submission July 17<sup>th</sup> 2015). The design competition is intended to set a development precedent, with the potential for further program rollout in the future. As a guide, the construction cost of each residential unit should be in the region of £150,000 or £1,700 per sq. m. The competition presented an ideal opportunity for SME's generally, as well as practices based in the Brighton and Hove area, to showcase their design skills.

Nominated as one of the 5 finalists for the Polished Red Apple Award Faculty Member of the Year by the Association of Greek Letter Organizations (ALGO), University of Miami, 2015.

Placed in top 20 out of 300 entries in an international competition to design a 150,000-sq. ft. laboratory building (New England Biolabs) with parking for 400 cars in Ipswich, Massachusetts, USA April, 2001 (I was ahead of large firms such as ARUPS)

Green Homes for Chicago, design of row house that promotes the use of sustainable materials and environment, August 2000.

Ferguson Shamamian and Rattner award for the best graduate thesis project, University of Notre Dame, Indiana, USA, May 1999.

Third prize in the World Habitat Day competition for the design of adaptable housing unit for the low income in Nairobi, Kenya, October 1991.

## **5. BOOKS AND MONOGRAPHS & CREATIVE WORKS:**

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### **Books**

**Onyango, J. O.** (2023). *Participatory Design Thinking in Architecture & Urban Planning*, New York, Barcelona: Actar Publishers;

**Onyango, J.** (In contract) "Evidence-Based Design of Sustainable Traditional Buildings", Palgrave-Macmillan (Anticipated submission date Spring 2024)

Hirota, E., H.; Formoso, C., T. & **Onyango, J.** (Eds.) (2013) "Mass Customization and Sustainability in Housing" [digital book], Londrina, PR, Brazil: ZEMCH Network; (2014); 334 pp.: ill. color; ePUB ISBN 978-0-9910608-1-8 doi: <http://www.zemch.org/proceedings/2014/zemch2014.pdf>

**Onyango, J.**; Noguchi, H. & Firley, E. (Eds.) (2013) "Visibility of Zero-Energy Buildings" *e-Proceedings of the ZEMCH2013 International Conference*, Miami: ZEMCH Network; 267 pp. ISBN: 978-0-9910608-0-1; doi: <http://www.zemch.org/proceedings/2013/zemch2013.pdf>

**Creative Works** (select projects since 2015: Complete list added in appendix)

Affordable Low Energy Homes, Design of 2 affordable low energy homes in South Side, South Bend for 1466 Works CDC. (Principal designer, Summer 2019-Summer 2020);

Design work involving addition and modification to Pedraza's Residence in Miami KJH Architects, Miami, FL. and Marietta, GA. (Collaborating Principal, 2015)

Passive design of Cafeteria addition at Greater Miami Adventist Academy (GMAA). KJHArchitects, Miami, FL. and Marietta, GA. (Collaborating Principal, 2015)

Design of Passive 2-bedroom residences for Ebenezer SDA Church. KJH Architects, Miami, FL. and Marietta, GA. (Collaborating Principal, 2015-ongoing)

### **Book Chapters**

**Onyango, J.** & Obonyo, E. A. (2013) “Does an urban design laboratory process contribute to construction of assets that responds to social needs?” In Kajewski, S.; Manley, K. & Hampson, K. (Eds.), *Proceedings of the 19th International CIB World Building Congress*, Brisbane: Queensland University of Technology; (2013); pp. 409-421. ISBN: 978-0-9875542-1-5, <https://wbc2013.apps.qut.edu.au/all.html>

Obonyo, E. A. Wu, W. & **Onyango, J.** (2013) “Sea Level Rise and Smart Historic Coastal Communities: Lessons from Savannah, GA and St. Augustine, FL”. In Kajewski, S.; Manley, K. & Hampson, K. (Eds.), *Proceedings of the 19th International CIB World Building Congress*, Brisbane: Queensland University of Technology; (2013); pp. 438-449. ISBN: 978-0-9875542-1-5, <https://wbc2013.apps.qut.edu.au/all.html>

**Onyango, J.** & Hadjri, K. “The impact of the design Charrette in the process of creation of sustainable Community: The case of Tornagrain”. In *Sustainability in Practice From Local to Global: Making a Difference*, ed. Corrigan, N., Sayce, S., & Taylor, R.; Kingston Upon Thames: Kingston University Press, (2009); pp.131-142, (chapter contribution).

## **6. REFEREED PUBLICATIONS:**

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### **Articles**

**Onyango, J.;** & @Ciaran, R. (2014) “Study of user awareness to energy conservation measures in non-domestic buildings in Ireland” *Journal of Innovative Energy Policy*, Vol. (3) 112, <http://dx.doi.org/10.4172/2090-5009.1000112>,

**Onyango, J.;** @McGeough, C., & Obonyo, E., O. “Waste to Worth: Evaluation of the potential of waste heat recovery technology, within the Commercial Kitchen Environment in Northern Ireland” *Journal of Green Building*, Vol. 7(4), (2012); pp. 62-69, doi: <https://doi.org/10.3992/jgb.7.4.62>

**Onyango, J.** “Simulation of passive ground-cooling system for a room in hot humid climate” *WIT Transactions on Ecology and The Environment*, Vol. 160, (2012); pp. 257-267 doi: 10.2495/DN120231. <https://www.witpress.com/elibrary/wit-transactions-on-ecology-and-the-environment/160/23415>,

Hadjri, K and **Onyango, J.** (2013) “Dubai Revisited: Are new planned communities more sustainable?” In *Proceedings of the Institution of Civil Engineers - Urban Design and Planning* Vol. 166(2), pp. 119-125, doi: <https://doi.org/10.1680/udap.10.00023>

**Onyango, J., & Noguchi, M.** (2009) “Changing attitudes of Community through the Design Charrette process”; *Neighbourhood-The International Journal of Neighbourhood Renewal*, Vol. 1(3) (May 2009); pp.19-30.

### Articles in Preparation

**Onyango, J. & Bantanur. S.** (in preparation) “Indoor Thermal Comfort of Traditional Courtyard Houses of South Canara India” *Journal of Building & Environment*, The SCImago Journal & Country Rank (SJR-

**Onyango, J. & Al-Thobaiti, M.** (in preparation) “The Effect of Dynamic Responsive Blinds on Energy and Indoor and Built Environment,

**Onyango, J. & Bantanur. S.** (to be submitted July 2023) “Integrating Energy Efficiency with Functional Resilience for Climate Change-Responsiveness: A Case Study Assessment of Earthen Masonry Residential Buildings in South Canara, India” *Journal of Sustainability*,

### Edited Journals

Noguchi, M.; Frattari, A.; Torres Formoso, C.; Altan, H.; **Onyango, J. O.**; Kim, J.; Tabet Aoul, K. A.; Amirkhani, M.; Wilkinson, S.; & Bantanur, S. (Eds). (2023), *Topical Collection "Encyclopedia of ZEMCH Research and Development"*, Vol. 3 (2023), ISSN 2673-8392 [Online] at [https://www.mdpi.com/journal/encyclopedia/topical\\_collections/ZEMCH](https://www.mdpi.com/journal/encyclopedia/topical_collections/ZEMCH),

Noguchi, M.; Frattari, A.; Torres Formoso, C.; Altan, H.; **Onyango, J. O.**; Kim, J.; Tabet Aoul, K. A.; Amirkhani, M.; Wilkinson, S.; & Bantanur, S. (Eds). (2022), *Topical Collection "Encyclopedia of ZEMCH Research and Development"*, Vol. 2 (2022), ISSN 2673-8392 [Online] at [https://www.mdpi.com/journal/encyclopedia/topical\\_collections/ZEMCH](https://www.mdpi.com/journal/encyclopedia/topical_collections/ZEMCH),

Noguchi, M.; Frattari, A.; Torres Formoso, C.; Altan, H.; **Onyango, J. O.**; Kim, J.; Tabet Aoul, K. A.; Amirkhani, M.; Wilkinson, S.; & Bantanur, S. (Eds). (2021), *Topical Collection "Encyclopedia of ZEMCH Research and Development"*, Vol. 1 (2021), ISSN 2673-8392 [Online] at [https://www.mdpi.com/journal/encyclopedia/topical\\_collections/ZEMCH](https://www.mdpi.com/journal/encyclopedia/topical_collections/ZEMCH),

### Conference Proceedings (Peer reviewed)

Iannuzzi L.; **Onyango, J.**; Setola N.; Borgianni, S.; Smith-Oka V.; Mical, C.; & Perrin, P. (2023) “Are birthplaces designed to enhance respectful care a reality, a possibility, or a luxury? Insights from multidisciplinary research in Kenya” presented at the 22nd International Normal Labour and Birth Conference Grange Over Sands, Cumbria, 24th – 26th April 2023;

Iannuzzi L.; Borgianni, S.; **Onyango, J.**; Setola N.; Smith-Oka V.; Mical, C.; & Perrin, P. (2022) Research poster “Are birthplaces designed to enhance respectful care a reality, a possibility, or a luxury? Insights from multidisciplinary research in Kenya” presented at the 21<sup>st</sup> International Normal Labour and Birth Research Conference (NLNB) in Denmark, September 12<sup>th</sup> -14<sup>th</sup> 2022;

Afacan, Y. & **Onyango, J., O.** (2018) “Using virtual reality to promote positive feelings of elderly” presented at the 11th World Conference of Gerontechnology, on May 7-11<sup>th</sup>, 2018 in St. Petersburg, Florida, USA

**Onyango, J., O. & Maloo, N.** (2019) “Analysis of impact of window design detail on energy demand profile of typical hotel room” In Gültekin, A. B. (Eds) *Proceedings of the 4th International Sustainable Buildings Symposium–ISBS2019*, London: IntechOpen; [DOI: 10.5772/intechopen.87836](https://doi.org/10.5772/intechopen.87836)

**Onyango, J.; Gang, W. & @Brenna, J.** (2013) “The effect of LEED certified residential buildings on household finances in Florida?” In Onyango, J.; Noguchi, H. & Firley, E. (Eds.) “Visibility of Zero-Energy Buildings” *e-Proceedings of the ZEMCH2013 International Conference*, Miami: ZEMCH Network; pp. 147-153. ISBN: 978-0-9910608-0-1; doi: <http://www.zemch.org/proceedings/2013/zemch2013.pdf>

**Onyango, J.; Gang, W. & @Elena, R.** (2013) “Analysis of energy use, indoor environmental comfort in the elementary schools in Miami” In Onyango, J.; Noguchi, H. & Firley, E. (Eds.) “Visibility of Zero-Energy Buildings” *e-Proceedings of the ZEMCH2013 International Conference*, Miami: ZEMCH Network; pp. 182-. ISBN: 978-0-9910608-0-1; doi: <http://www.zemch.org/proceedings/2013/zemch2013.pdf>

**Onyango, J.; & @Tafera, H.** (2013) “Examination of the effect of living walls on energy and indoor environment in hot humid climate” In Onyango, J.; Noguchi, H. & Firley, E. (Eds.) “Visibility of Zero-Energy Buildings” *e-Proceedings of the ZEMCH2013 International Conference*, Miami: ZEMCH Network; pp. 203-208. ISBN: 978-0-9910608-0-1; doi: <http://www.zemch.org/proceedings/2013/zemch2013.pdf>

**Onyango, J.; @Bingying, L. & Meng, X.** (2012) “A comparative study of the how small-medium size enterprises (SMEs) in China and UK establish and maintain supply chain management relationship” presented at the *Third International Conference on Construction in developing Countries*, July 4-6<sup>th</sup> 2012 in Bangkok, Thailand. (<http://www.iccidc.ecu.edu/index.html>);

**Onyango, J.; \*Agrawal, A. & Qin, M.** (2010) “Building performance evaluation: The case of McClay Library”, paper presented at the *4th International Conference on Built Environment in Developing Countries*, (ICBEDC) 1st -2nd December 2010, Penang, Malaysia;

**Onyango, J.; Barr, E. & Noguchi, M.** (2010) “A Charrette experience in collating the Scottish industry’s response to Canadian low Energy Affordable Housing through housing design”, paper presented at the *Renewable Energy 2010 International Conference*, 30th June -2nd July, Yokohama, Japan

## **7. UNREFEREED PUBLICATIONS:**

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None

## **8. OTHER PUBLICATIONS**

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None

## **9. INVITED LECTURES and ADDRESSES**

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**Onyango, J.** (2022); Marco Casini, M (La Sapienza); Beetz, J. (RWTH Aachen) & Valdez, N. (U of Mindanao) “Empowering the future of architects: Changing demands in architectural” Roundtable discussions and Q & A moderated by Szabolcs Mikó, October 26<sup>th</sup>, 2022,

**Onyango, J.** (2022); “STARCH”: Guttu Traditional Courtyard Housing in India”, Fung Public Talk”, PIIRS Fung Global Fellows Program and Program in South Asian Studies and the Princeton-Mellon Initiative in Architecture, Urbanism, and the Humanities, Princeton University, October 13<sup>th</sup> 2022, <https://arc-hum.princeton.edu/events/fung-program-talk-sustainability-traditional-architecture-%E2%80%9Cstarch%E2%80%9D-guttu-traditional>

**Onyango, J.** (2019) “Strategies for Opening Architectural Office in Africa” presented at the American Institute of Architects (AIA) Seattle International Architecture Forum (SIAF) on Emerging Markets in Africa at MG2 Architects, Seattle on 29<sup>th</sup> May 2019. (Keynote speech). (<https://www.aiaseattle.org/event/siaf-emerging-markets-in-africa/>).

**Onyango, J.** (2019) “SMART CODE: A Tool for Designing Sustainable Transit Oriented Developments” presented at the Seminar on In Transit: An Integrated Design Approach for Transport Corridors sponsored by the Council of Architecture of India at the Council of Architecture Training & Research Centre (COA - TRC), BMS School of Architecture, Bangalore, Feb 25<sup>th</sup> –Mar. 1<sup>st</sup> 2019.

**Onyango, J.** (2016) “Climate Change and the Built Environment: Teaching how to Design with nature as adaptive strategy against impacts of heat waves” presented at the Workshop on Climate Change & the Built Environment at the School of Environmental Design, University of Colorado, 22<sup>th</sup> -27<sup>th</sup> February 2016, Boulder;

**Onyango, J.** (2015) “Net-Zero Housing Design: A Case Study Analysis” presented at the Symposium on Sustainable and Resilient Practices for South Florida”, 19<sup>th</sup> November 2015, Cutler Bay, FL USA;

**Onyango, J.** (2015) “A discourse on the architectural education of the future” presented at the School of Architecture, University of Reading, 21<sup>st</sup> December 2015, [Online Presentation]

**Onyango, J.** (2015) “Research, Impact and Community Engagement: Building Relationships Between University and the City” presented at the School of Architecture, University of Portsmouth, 21<sup>st</sup> August 2015, Portsmouth, England (UK);

**Onyango, J.** (2015) “Climate change adaptation that support comfort of older people in care home environments” presented at the School of Architecture, University of Queensland, 14<sup>th</sup> February 2015, St Lucie, Brisbane, Australia;

**Onyango, J.** (2014) “Climate change and the Built Environment: Designing with nature as adaptive strategy against impacts of heat waves” presented at the School of Interior Architecture and Environmental Design, Bilkent University, 22<sup>nd</sup> May 2014, Bilkent, Ankara;

**Onyango, J.** (2012) “A Charrette Experience in Collating the Scottish Construction Industry’s Response to Canadian Low Energy Affordable Housing Design Strategies” presented at the School of Architecture, University of Miami, 2012, Coral Gables, Miami;

**10. GRANTS and SPONSORED PROGRAMS**

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**Onyango, J. (PI)** “Sustainability of Traditional Architecture- **STARCH**” funded by the School of Architecture Faculty Research Grant-University of Notre Dame, February 2022-July 2025. **Award \$100,000.**

**Onyango, J. (PI-50%); & Weldon, B. (PI-50%)** “Engineering Research Center for Bio-Mediated and Bio-Inspired Geotechnics (CBBG)”, through New Mexico State University funded by National Science Foundation (NSF) Grant #A20-0383-00, **Award \$3,999.**

Adams, E. I. (Keough School); Bleck, J. (Political Science); Bolten, C. (Kroc Institute/Department of Anthropology); Miller, D (Keough School), Ocobock, P. (History); Rogo, D. (Kroc Institute: History and Peace Studies); Katongole, E. (Theology/Keough School); Lwere, T. (Economics); Adams, Y. (Keough School); Friesen, P. (Political Science); Archie, E. (Biology); Rund, S. (Center for Research Computing); Amadu, F. (Keough School); Haworth, M. (Theology); Lobo (Biology), Cristian Koepfli (Biological Sciences), Rachel Sweet (Keough School), Patrizio Piraino, N. (Keough School); **Onyango, J. O.** (Architecture); Oluoch-Aridi, J. (NDI); Nahlen, B. (Eck Institute); Amadi, K. (Theology); Omar, R. (Kroc Institute/Keough School); Fr. Kollman, P. (Theology); Moosa, E. (History/Kroc Institute/Keough School); Dinkelman, T. (Economics); Guzman, D. (Pulte Institute); Ibrahim, R. (Political Science); McDonnell, E. (Sociology); Kefen, I. B. (Anthropology); Purekal, T. (Pulte Institute); Pollnow, S. (History); Nathan, L. (Kroc Institute/Keough); Fr. Odozor, P. (Theology/Africana); Kabaghe, B. L. (Political Science) & Fink, K. (Pulte Institute). “The Pamoja (*Together*) ND Africa Initiative” submitted for Participation in University of Notre Dame MSCA/Big Ideas Symposium November 2021, **Awarded \$100,000.**

Weldon, B. (PI-24.9%); & **Onyango, J. (CoPI-76.2%)** “Engineering Research Center for Bio-Mediated and Bio-Inspired Geotechnics (CBBG)”, funded by NSF through New Mexico State University 6/29/2020 - 7/31/2020, **Award # A20-0383-001, Sponsor Award # Q02192, Awarded \$3,990.**

**Onyango, J. (PI) & Bantanur, S. (CoPI-BMS School of Architecture, India)** “Sustainability Performances of Kath-Khuni Building Typology of Northern India [**SuPerKath**]” University of Notre Dame Research Internal Grants Program grants under Notre Dame International Asia Research Collaboration Grant” August 1, 2020-July 31, 2021. **Awarded \$9,990** (will be used next academic year due to Covid-19).

Weldon, B. (PI-33.3%); **Onyango, J. (PI-33.3%); & Walsh, K. (PI-33.3%)** “Sustainability and Heritage Survey of Historic Structures in Ireland,” funded by Nanovic Institute at the University of Notre Dame Institute for European Studies. January, 2020-December, 2020. **Awarded \$10,000.**

**Onyango, J. (PI-35%-ND); Setolla, N. (PI-35% University of Florence, Italy); Perrin, P. (PI-10%-ND); Smith-Oka, V. (PI-10%-ND); & Iaannuzzi, L. (PI-10%-University of Portsmouth, UK).** “Maternity Spaces and Integral Human Development: Healthy Settings in Maternal-Child Health Centers in Kenya” the Kellogg Grants for Faculty and Ford Program-University of Notre Dame. September, 16<sup>th</sup>, 2019. **Awarded \$19,996 and \$7,200** respectively



**Onyango, J. (PI)**, 1 week seminar “Sustainability & Energy Modeling of Traditional Architecture” for capacity building of existing academic resources at a University in India under **Global Initiative for Academic Networks (GIAN)** in Higher Education funded by the Ministry of Human Development of India and hosted by Prof. Dr. Kasthurba A. K. at the Department of Architecture and Planning, National Institute of Technology Calicut, NIT Calicut, Kerala, India (dates to be determined) **Awarded \$8,000**. GIAN # 1220 (<https://gian.iitkgp.ac.in/ccourses/approvecourses>)

**Onyango, J. (PI)** “The Impacts of choice of energy code compliance path on whole-building energy performance for residential buildings”, funded by the University of Notre Dame Research Internal Grants Program grants under “Notre Dame Faculty Research Award- FRSP) – IG” Program January, 2019-June, 2020. **Awarded \$9,933**.

**Onyango, J. (PI-ND) & Bantanur, S. (CoPI-BMS School of Architecture, India)** “Sustainable Performances of Traditional *Guttu* Buildings in Southern India”, funded by the University of Notre Dame Research Internal Grants Program grants under “Notre Dame International Asia Research Collaboration Grant” Program. January, 2019-December, 2019. **Awarded \$8,000**.

**Onyango, J. (PI)** “Collaboration with Prof. Tianqi Yu, the Deputy Director of Beijing Key Laboratory at the School of Architecture and Urban Planning, Beijing University of Civil Engineering and Architecture (BUCEA) on Research on High Performance Moisture Managed Envelope Solutions for Traditional Buildings funded by the University of Notre Dame Research Internal Grants Program grants under “Notre Dame International Faculty Research Travel Grant” Program. November, 2018-June 2019. **Awarded \$2,500**

Perez-Hernandez, J., C (PI-33.3%); **Onyango, J. (PI-33.3%)**; & Walsh, K. (PI-33.3%) “Architectural, Urban Design and Human Development in an Era of Climate Change”, funded by the **ND Energy** at the University of Notre Dame for Energy Studies Minor course development. May, 2018-December, 2019. **Awarded \$5,000**.

**Onyango, J. (PI)** “South Bend Sustainable Housing Lab”, funded by the Center for Social Concerns Grants at the University of Notre Dame for development of Community-Engaged Taught course development. March, 2019-December, 2019. **Award \$3,000**.

**Onyango, J. (PI)**; ND-Zero Energy Mass Customized Homes (**ND-ZenMass**)-Mission trip to Japan, submitted to the University of Notre Dame Research Internal Grants Program grants under “Notre Dame International Faculty Research Award-Insider” Program. April 5<sup>th</sup>-July, 2018; **Award \$14,932**.

Chao, S. (PI-20%); Correa, J. (CoPI-20%); **Onyango, J. (CoPI-20%)**; Montero, A. (CoPI-20%); & Frett, S (CoPI-20%). 2013, “Haiti: Developing Sustainable Traditions & Innovations in Architecture and Urbanism for the Region, Towns and the Rural Villages of Akayè (Arcahaie). Learning from the Past. Forging the Future. Empowering the Population” Funded by Barr Foundation jointly with the WK Kellogg Foundation. June 2013-November 2014. **Award: \$240,744 and \$150,000 respectively**

**Onyango, J. (PI)** 2012, “Book and Journal Publications Grant”, Provost Research Award, University of Miami, Provost’s Office. **Award \$10,500**

**Onyango, J. (PI)** 2012, “Sandpit on ageing and comfort”, Scientist & Engineers Expanding Diversity & Success, SEEDS “You Choose” grant, funded by the National Science Foundation (NSF) and the

University of Miami, Provost's Office. **Award \$2,680**

**Onyango, J.** (PI) 2011, "Application of ICT in improvement of the teaching of Building Technology Courses", Faculty Learning Community on Information and Communication Technology (ICT) Literacy, FLC grant from the Executive Office of the Vice Provost, University of Miami, **Award \$1,500**

**Onyango, J.** (PI), Agrawal, A. (CI) & Qin, M. (CI) 2010. "Building performance evaluation: The case of McClay Library", **Award \$3,200.**

**Onyango, J.** (PI) & Mackie, D. (CoPI) 2006-2007, "The relative merits of the Charrette process to future Community Engagement in Scotland: The case of Tornagain Settlement in the Highlands", Consultancy for Turnberry Consultants on behalf of Moray Estate Development Company and Scottish Executive. In progress since September 2006, completed in January 2007. **Award \$16,000.**

Khiati S. (PI) & **Onyango, J.** (CI) 2006-2007. "Malls vs. Suqs: The future of the UAE City Centres; the Case of Al-Ain UAE, using Space Syntax" University Research funding award, completed in February 2007. Statistical analysis and literature review. **Award \$5,440.**

Haggag, M. (PI), Hadjri, K. (PI) & **Onyango, J.** (Co.PI) 2002-2003, "The Planning and Transformation of Urban Residential Patterns: The Case of Al-Ain, UAE" University research funding award. Completed in January 2003. I did the literature review and statistical analysis of data. **Award \$5,440.**

### **Pending**

Shiflett\*\*, M. (KU); Schaefer\*\*, J. (ND); Vicic\*, D. (LU); Morais^; A. (KU); Goldfarb^, B. (UM); Colón^, Y. (ND); Dowling, A. (ND); Earnhart, D. (KU); Fredin, L. (LU); Guo, R. (ND); Hwang, Y. (UM); Jiang, C. (SD); Liu\*, D. (UM); Maginn, E. (ND); Marsh, J. (LU); O'Brien, C. (ND); Scurto, A. (KU); Sun, H. (SD); Vlasisavljevich, B. (SD); Wang, Z. (SD); Watkins, T. (LU); Wintoki, J. (KU); Young, E. (LU); Takeuchi\*, I. (UM); Karamperidou^, C. (UH); Agonafir, D. (UM); Kaiser, R. (UH); Katzenbacher, J. (SD); Myung, N. (ND); Pu, B. (KU); Radermacher, R. (UM); Rodriguez, E. (UM); Sun, R. (UH); Valentino, G. (UM); Zhang, Y. (ND); **Onyango^, J.** (ND); Phillip^, W. (ND); Depcik, D. (KU); Huber, B. (ND); Matteson, K. (UH); NSF Engineering Research Center for Environmentally Applied Refrigerant Technology Hub (EARTH). Program Solicitation: NSF 22-580 to the National Science Foundation (NSF) **Bid Award \$26 million** over 5 years renewable. [*Principal Investigator\*\**, *Thrust leader\**; *Thrust Co-Leads^*]. (University of Hawai'i (UH), Kansas University (KU), Lehigh University (LU), University of Maryland (UM), University of Notre Dame (ND), and University of South Dakota (SD))

**Onyango, J.** (PI-75%); Wang, D. (PI-25%); "Understanding the Variances in Energy Consumption in Residential Buildings using Biomimetic Epidemiological Neural Networks" to be submitted to the National Science Foundation (NSF) grants under "Environmental Sustainability" Program. **November, 2023; Award \$298,000**

### **11. MASTER'S THESES DIRECTED**

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2020. Master of Science in Architectural Engineering- External Evaluator (Examiner) for Ms. Monaya Muhammed Syam, "*Housing Occupants' Motivational Drivers for Energy-savings in the United Arab Emirates; Exploratory Study*" United Arab Emirates University, Al Ain, UAE (Viva November, 12<sup>th</sup> 2020)

**MSc thesis in Architecture and Sustainable Design**

2021. MSc. External Evaluator (Examiner) for Dhabia Nasser Al Hazmi Ali Alefari, “*The Impact of Light Rail Transit on the Urban Development in Dubai, UAE*” United Arab Emirates University, Abud Dhabi, UAE (Viva November, 22<sup>nd</sup> 2021),

2021. MSc. External Evaluator (Examiner) for Monaya Muhammed Syam, “*Housing Occupants’ Motivational Drivers for Energy-savings in the United Arab Emirates; Exploratory Study*” United Arab Emirates University, Abud Dhabi, UAE (Viva November, 10<sup>th</sup> 2020),

Al Thobaiti, M. (2013-14) “*Dynamic and Adaptive Façade in Gulf Country*” MSc. degree University of Miami,

Quero-Castro, A., Y. (2012-13) “*MIAMI Freight Village: Gearing Up for An Efficient City*”, M.Sc.degree University of Miami.

Ciaran, R.; (2010-11) “*Investigation into the effectiveness of ‘sub metering’ with regards to reductions in energy use in Commercial Buildings in Belfast*” MSc. Degree Queens University Belfast, UK, 2011

McGeough, C. (2010-11) “*Design and Performance of commercial kitchens using heat recovery systems in Ireland*” MSc. Degree Queens University Belfast, UK,

**M.Arch. Theses in Architecture**

Lorenzo, S. (2013-14) “*Sustainable Eco resorts: A systematic Investigation of design of sustainable infrastructure and practices eco-resorts*” M.Arch degree University of Miami

Quinn, P. (2010-11) “*The potential effect of ash concrete on Zero Carbon Housing Design*” M.Arch. degree Queens University Belfast, UK

Puls, L. (2009-10) “*Home for the Homeless*” M.Arch. degree, Queens University Belfast Chapman, O. (2009-10) “*Contemporary Subterranean Communal Space*”, M.Arch. degree, Queens University Belfast,

Adamson, M. (2010-11) “*Urban decay- an investigation into abandonment and desertion of buildings and cities*” M.Arch. degree, Queens University Belfast.

**12. DOCTORAL DISSERTATIONS DIRECTED**

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2023. PhD External Evaluator (Examiner) for Mr. Anil Kumar Chilakapati, “*Passangers’ Intuitive Navigation within the Entrance Lobby of a Railway Station: A case of Vijayawada Scenario*” School of Planning and Architecture (SPA), Vijayawada, India (Viva August, 2023)

2022. PhD External Evaluator (Examiner) for Ms. Supriya Mahesh Patil, “*Investigation of Stone Weathering in Heritage Monuments of Maharashtra*” National Institute of Technology, Chennai, India (Viva May, 26<sup>th</sup> 2022)

2022. PhD External Evaluator (Examiner) for Sheelu Jones, “*Impact of Human-Modified Landscapes on Landslide Occurrences in Environmentally Sensitive Areas of Western Kerala*” National Institute of Technology, Chennai, India (Viva May, 27<sup>th</sup> 2022)

2021. PhD External Evaluator (Examiner) for Alex Jose, “*Stabilized Laterite Soil Blocks Modified Using Natural Rubber Latex: Characterization and Durability Studies*” National Institute of Technology, Chennai, India (Viva November, 10<sup>th</sup> 2021)

2020. PhD External Evaluator (Examiner) for Ms. Arulmalar Ramaraj, “*Investigation of Post- Consumer Packaging Wastes as Secondary Resources for Non – Structural Applications in Architecture*” Sathyabama Institute of Science & Technology, Chennai, India (Viva November, 18<sup>th</sup> 2020)

2020. PhD External Evaluator (Examiner) for D. K. Karthigeyan, “*Evaluation of Impact of Metro Station on Land Use Changes and Development Pattern Within its Influence Zone - A Case Study of Chennai Metro Rail Corridor*” Hindustan Institute of Technology and Science, Chennai, India (December, 8<sup>th</sup> 2020)

2015. PhD committee for Wei Tian, “*Developing and applying the coupled simulation of indoor environment and HVAC system to improve building energy efficiency*” University of Miami (Completed 2017)

2015. PhD committee for Esber Andiroglu, “*Development of a Virtual Air / Water Flow Meter Using Fan / Pump Head and Motor Power*”, University of Miami (completed June 19<sup>th</sup> 2015)

2014. PhD examination committee for Dianna Arboleda, “*Fabric Reinforced Cementitious Matrix (FRCM) Composites for Infrastructure Strengthening and Rehabilitation: Characterization Methods*”, University of Miami (Completed July 2014)

2013. PhD committee for Guillermo Claire, “*GFRP Reinforcement for Concrete Structures – Non-traditional Shapes*”, University of Miami (Completed November 2015)

2011. External advisor PhD student at Queens University Belfast, Mulan Mu; “*Development of SSPCM with improved fire resistance property and thermal performance*”. (Completed 2014)

### **13. PROFESSIONAL MEMBERSHIPS**

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Registered architect in the United Kingdom, Architects Registration Board in the United Kingdom (ARB) 064536B since 1998 –

Just applied for architects’ registration in the US through the NCARB and ARB Mutual Recognition Agreement (<https://arb.org.uk/international-routes/ncarb-and-arb-mutual-recognition-agreement-information/#:~:text=ARB%20will%20verify%20your%20qualifications,will%20be%20transmitted%20to%20NCARB.&text=You%20will%20then%20need%20to,steps%20to%20complete%20your%20application> )

Registered architect Kenya and eligible for registration through reciprocity in Tanzania, Uganda and all other East African Community member states since 1994 -2011 (lapsed)

Royal Institute of British Architects (RIBA) corporate membership (reinstatement pending August 2023)

## **14. OTHER NOTABLE CONTRIBUTIONS**

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### **Editorial Responsibilities**

Member Board of Editors: *SN Applied Science-SPRINGERNATURE*,

Member Board of Editors: *Encyclopedia of ZEMCH Research and Development*

Member Board of Editors: *Journal of Sustainable Smart Behavior (SSB)* Member Board of Editors: *Journal of Innovative Energy Policies, (IEP)*

Guest Board of Editors: *Journal of Sustainability (MDPI)*

Associate Editor: Special Edition of *The International Journal of Environmental, Cultural, Economic and Social Sustainability*,

### **Reviewer Responsibilities**

Reviewer, *Journal of Facilities Management*; Reviewer, *International Journal of Green Energy*;

Reviewer, *International Journal of Engineering, Construction and Architectural Management*;

Reviewer, *Journal of Green Buildings*;

Reviewer, *Journal of Building & Environment*;

Reviewer, *Journal of Architectural Science Review*;

Reviewer, *Journal Energy and Buildings*; Reviewer,

*Journal of Open House International*;

Reviewer, *International Journal of Sustainability in Higher Education*;

Reviewer, *International Journal of Sustainability*;

Reviewer, *Journal of Environmental Psychology*

### **Conference Chairs Responsibilities**

Conference Technical Co-Chair for the 2022 ZEMCH International Conference to be held in Bangalore, India, from 3rd to 5th November, 2022 <https://conferences.bmssa.ac.in/zemch2022/>

Conference Joint Coordinator, for the 2015 Symposium on Sustainable and Resilient Practices for South Florida held at Cutler Bay High School, Cutler Bay, FL on November 19<sup>th</sup> 2015

Conference Technical Co-Chair for the 2014 ZEMCH International Conference held in Londrina, Brazil, from 4th to 6th June 2014 <http://www.paisagemetnografica.com.br/zemch.html>

Conference Coordinator, for the 2013 ZEMCH International Conference held at University of Miami, October 30<sup>th</sup> to November 1<sup>st</sup> 2013 <http://arc.miami.edu/ZEMCH2013/>

### **Conference Peer Reviewer Responsibilities**

Peer reviewer for the 109th Annual Meeting, “Expanding the View: Prospect(s) for Architectural Education Futures”, March 24-26, 2021, VIRTUAL CONFERENCE

Peer reviewer for the 102<sup>nd</sup> ACCSA Annual Meeting “*GLOBALIZING ARCHITECTURE: Flows and Disruptions*”, April 10-12, 2014, Miami Beach, FL, USA

Peer reviewer for the 2014 Construction Research Congress, to be held in May 19-21, 2014 at Georgia Institute of Technology, Atlanta, GA, USA

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Peer reviewer for the Third International Conference on Construction in developing Countries, ICCDC, held on July 4-6<sup>th</sup> 2012 in Bangkok, Thailand

Peer reviewer for the ZEMCH 12 Conference (<http://www.zemch.org/conference2012/index.html>)

### **Research Grant Review Panel Responsibilities**

Panelist Reviewer NIH National Institute for Health C06- Division of Physiological and Pathological Sciences, 2023

Panelist Reviewer NSF Environmental Sustainability- Division of Chemical, Bioengineering, Environmental, and Transport Systems (ENG/CBET), 2016,

Panelist Reviewer NSF Graduate Research Fellowship Program- Directorate for Engineering, 2014-15

Juror for International Architectural Design Competition for 2014 African Union Assembly Meeting Conference Center, Gabon, by the *Presidence de la Republique Gabonaise* through *Agence Nationale Des Grands Travaux*, July 9<sup>th</sup> to 15<sup>th</sup> 2012, (I was the only academic out of the 7 members with diverse backgrounds from Gabon, USA, Serbia, and the United Kingdom).

Member of the Zero-Energy Mass Custom Homes, Network, (ZEMCH) that aims to enhance industry-academia collaborations to tackle issues around the delivery of socially, economically and environmentally sustainable homes in developed and developing countries, (<http://www.zemch.org/>); currently consists of 18 academic institutions and housing bodies from Americas; Asia; and Europe.

Organizing Committee of ZEMCH 2012 International Conference; August, 20-24<sup>th</sup> 2012 in Glasgow, Scotland (one of 19 members who review all conference papers submitted)

### **Summer Research in Architecture**

Faculty Advisor: Crawford, R. (Summer 2022) *Life Cycle Assessments of Building Materials in Notre Dame Construction*- 2022 Vincent P. Slatt Fellowship for Undergraduate Research in Energy Systems and Processes. **Award \$2,000**

Faculty Advisor: Crawford, R. (Winter 2021) *Solar Energy Potential in South Bend*- 2020 Vincent P. Slatt Fellowship for Undergraduate Research in Energy Systems and Processes. **Award \$2,209**

Faculty Advisor: Gutierrez-Forbes, K. (Winter 2021) *Energy efficiency and functional resilience in response to climate change in Nicaragua*, - 2020 Vincent P. Slatt Fellowship for Undergraduate Research in Energy Systems and Processes. **Award \$4,990**

Faculty Advisor: Cuzzo, M. (Winter 2021) *Energy efficiency and functional resilience in response to climate change in Nicaragua*, - 2020 Eagan Fellowship for Undergraduate Research in Energy Systems and Processes. **Award \$3,803**

Faculty Advisor: Tipe, J. (Winter 2021) *Effects of City Planning on Communities: Architecture of Apartheid in South Africa*, - 2020 Eagan Fellowship for Undergraduate Research in Energy Systems and Processes. **Award \$2,546**

**Brazil Scientific Mobility Program Academic Training: Summer 2015:**

Pedro-Delai, J.; (Summer 2015) *"Using PCM as an Adaptive Retrofit Response To Climate Change In The Design Of Typical Residence In Hot-Humid Climate"* Summer Internships University of Miami

De Sousa-Gonzaga, T.; (Summer 2015) *"How mobile structures, high-technology involving sensors and sustainable systems can support a design of a high-tech mobile classroom"* Summer Internships University of Miami

Medeiros-Netto, R.; (Summer 2015) *"The design and performance of Innovative designed houses in hot-humid climate of South Florida."* Summer Internships University of Miami

Martins-Batista, S.; (Summer 2015) *" Adaptive Retrofit Strategy For Buildings In Hot-Humid Climates due to future effects of Climate Change"* Summer Internships University of Miami

Mara Da Cruz, G.; (Summer 2015) *" Integrating the nature of living walls on energy and indoor environment in hot humid climate"* Summer Internships University of Miami

**Sustainability Minor Capstone Advising**

Faculty Advisor: Valerio, S. (2022-23) *Traditional Adobe Construction: A Future Sustainable Building Practice,*

Faculty Advisor: Tipe, J. (2022-23) *The Feasibility of Solar Technology in Dchang, Cameroon,*

Faculty Advisor: Crawford, R. (2022-23) *Environmental Assessments of Building Materials in Contemporary Construction,*

Faculty Advisor: Sardi, C. (2021-22) *Exploring the use of passive Trombe envelope heating systems in South Bend, Indiana,*

Faculty Advisor: Agarwal, A. (2018-19) *Durga Puja- A Balancing Act: Guidelines for Achieving Environmental Sustainability in a Cultural Context,*