**PERSONAL DETAILS**

**Name**: SIMONS Barbara

**Date of Birth**: 8th May, 1985

**Sex**: Female

**Nationality**: Ghanaian

**Hometown**: Akropong-Akuapem (Eastern Region)

**Place of Birth**: Kumasi (Ashanti Region)

**Marital Status**: Married

**Address**: P. O. Box 343, Akropong-Akuapem

**Telephone**: 0243 483 224

**Email Address**: bsimons.cap@knust.edu.gh;

nanaakuaayebea@yahoo.co.uk

**PROFILE**

A young lecturer and architect with extra ordinary ability to work under any pressure in order to meet deadlines. Very versatile and result oriented in any given project or assignment. Has gained enough experience through internship in various architectural and research establishments. A self motivated person, a fast learner and a good team player, exhibiting a good working relations with superior and subordinates. Demonstrating understanding in design, construction, research and building performance issues.

**PROFESSIONAL MEMBERSHIP**

AUG. 2014 Associate member, Ghana Institute of Architects (GIA)

AUG. 2014 Registered member, Architects Registration Council (ARC)

**EDUCATIONAL BACKGROUND**

2012- 2015 Doctor of Philosophy (PhD) in Building Technology

 Kwame Nkrumah University of Science and Technology – Kumasi

 (Thesis on building energy efficiency through design and reduction strategies)

2008-2010 Master of Architecture (M. Arch.)

 Kwame Nkrumah University of Science and Technology – Kumasi

2004-2008 Bachelor of Science (BSc.) in Architecture

 Kwame Nkrumah University of Science and Technology – Kumasi

2001-2003 Senior Secondary School Certificate Examination (SSSCE)

 Aburi Girls’ Senior Secondary School, Aburi - Akuapem

1997- 2000 Basic Education Certificate Examination (BECE)

 Methodist Basic School, Akropong- Akuapem

**EMPLOYMENT/ WORK EXPERIENCE**

2016 - **Lecturer**, Department of Building Technology, K.N.U.S.T, Kumasi

2014 - 2015 **Graduate Assistant** (Dept. of Architecture), K.N.U.S.T, Kumasi. Assisting in:

 Architecture One Studio;

 M. Arch One Professional Practice;

 Conservation theory;

 M. Arch One and Architecture Two Building Services; and

 Reading and Correcting of thesis (M. Arch 2) and dissertation (Yr. 4) works

2010 - 2014 **Research Assistant/ Assistant Architect**

 Research Centre for Building Performance and Design (RCBPD) – Kumasi

 **ROLES**:

 Collects and organizes data for research papers;

Designs and draw out figures that are used to demonstrate results in research papers;

Contributes effectively towards the general writing of research papers;

Assist in the preparation of Tender Document;

 Preparation of Technical Specification;

 Modelling and Simulation of building designs; and

 Designing, supervision and Monitoring of Projects.

2010 - 2011 **Teaching Assistant**

 Department of Architecture- K.N.U.S.T, Kumasi

 **ROLES**:

Teaching and supervising students in Architectural Design;

Assisting first year lecturers in assessing design assignments; and

Any other activity that the department assigns to me.

2008- 2010 **Student Architect on Attachment** (Verachs, Kitase-Akuapem)

 **ROLES**:

Involved in the renovation and conversion of an existing hotel (City hotel, Kumasi) structure into Golden Tulip Kumasi City;

Attending site meetings and taking minutes of proceedings;

Supervising and monitoring the progress of work at construction sites of ongoing projects; and

Writing progress report of ongoing projects.

**AWARDS AND ACHIEVEMENTS**

2017 **Reviewer**: Sixth International Conference on Infrastructure Development in Africa (ICIDA ) at K.N.U.S.T, Kumasi.

 **Reviewer**: British Journal of Applied Science and Technology.

 2014 **Overall best** candidate in the 2013 Professional Practice Examination

(Architect Registration Council).

2011 **Outstanding presentation** (Engineering stream):

 4th Annual Applied Research Conference (Koforidua Polytechnic).

2009-2010 **Member**: Jurors for Open- Source Design Competition:

A competition for the best affordable housing design by a consortium in the Netherlands.

2004-2006 **Class Representative**:

 Architecture class representative for two consecutive years (first and

 secondyears)

2002-2003 **Special award** for members of the Head of State Award Club (HOSA)-Bronze medal. Aburi Girls’ Secondary School (Aburi- Akuapem)

 **Sports Prefect**:

 Aburi Girls’ Secondary School (Aburi- Akuapem)

2001-2002 **Best Sport Girl**:

 Aburi Girls’ Secondary School (Aburi- Akuapem)

1999-2000 **District Library Quiz Award Winner**:

 Representative (Methodist Basic School). Akuapem North District

**CONFERENCES/WORKSHOPS/ SEMINARS ATTENDED**

2017 - **Participant**: Sixth International Conference on Infrastructure Development in Africa (ICIDA ) at K.N.U.S.T, Kumasi, April, 12th-14th, 2017.

2015 - **Participant**: Fourth International Conference on Infrastructure Development in Africa (ICIDA) at K.N.U.S.T, Kumasi, March, 25th-26th, 2015.

2013 - **Participant**: Third International Conference on Design, Development and Research, Faculty of Art, College of Art and Social Sciences, Kwame Nkrumah University of Science and Technology, Kumasi – Ghana, July 18th -20th , 2013.

2012 - **Participant**: First International Conference on Infrastructure Development in Africa (ICIDA ) at the Golden Tulip Kumasi City, March, 22nd – 24th 2012.

2011- **Participant**: Three day conference dubbed ‘Water Africa and West Africa Building Construction Exhibition and Seminars 2011 at Accra International Conference Centre, May, 4th -6th, 2011.

**Participant**: Fourth annual applied research conference at Koforidua Polytechnic on the theme ‘Ghana’s emerging oil economy, the contribution of the Polytechnics’, July, 11th -14th, 2011.

2010- **Participan**t: First ever conference on Postgraduate Studies. May 2010 by the College of Architecture and Planning, KNUST-Kumasi.

**Participant**: Two day conference on Accelerating National Development Through Decentralisation and Good Local Governance, Institute of Local Government Studies and Centre for Settlement Studies, KNUST, Kumasi, Ghana, December, 14th -15th , 2010.

2006- **Participant**: Four day African Union of Architects and the West African Regional Council Conference on Architecture, Culture and the Environment, in Accra by the Ghana Institute of Architects (GIA), April 2006.

**JOURNALS AND CONFERENCE PAPERS**

1. Koranteng, C., **Simons, B.** and Manu, F.W. (2021). "A thermal performance study of four communities in Ghana's savannah region", Engineering, Construction and Architectural Management, Vol. ahead-of-print No. ahead-of-print. <https://doi.org/10.1108/ECAM-07-2020-0572>

1. Antwi-Afari, P., Owusu-Manu, D-G., **Simons, B.,** Debrah, C., Ghansah, F. A., (2021). Sustainability guidelines to attaining smart sustainable cities in developing countries: A Ghanaian context. Sustainable Futures, 3 (2021) 100044, pp. 1-8
2. Koranteng, C., **Simons, B.** and Nyame-Tawiah D. (2021). Simulation-Based Analysis of the Effect of Green Roofs on Thermal Performance of Buildings in a Tropical Landscape. RISUS - Journal on Innovation and Sustainability, 12 (1), pp. 45-56
3. Koranteng, C., **Simons, B.**, Gyimah Abrokwah K. and Nkrumah, J. (2021). Ghana’s Green Building Assessment Journey: An Appraisal of the Thermal Performance of an Office Building in Accra. Journal of Engineering, Design and Technology. In Press.
4. Osei-Poku, G., Koranteng, C., and **Simons, B.** (2020). Post-Occupancy Evaluation of Halls of Residence at Takoradi Technical University, Ghana. Takoradi Technical University Journal of Technology, 6 (1), pp. 24-44
5. Koranteng, C., **Simons, B.,** Essel, C., (2019). Climate responsive buildings: A Comfort Assessment of buildings on KNUST campus, Kumasi. Journal of Engineering, Design and Technology, 17 (5): pp. 862-877. <https://doi.org/10.1108/JEDT-03-2019-0054>
6. Addy, M.N., Akunyumu, S., **Simons, B.,** (2019). Key risk factors affecting renewable energy independent power producer (IPP) set-up projects in developing countries: The case of Ghana. Journal of Engineering, Design and Technology, 17 (6): pp. 1340-1355. DOI 10.1108/JEDT-03-2019-0072
7. Koranteng, C., **Simons, B.,** Awume, J., (2019). Evolution of spatial configurations in Ghana’s housing development: The case of private apartment buildings in Ghana. African Journal of Applied Research, 5 (2): pp. 12-23
8. Koranteng, C., **Simons, B.,** Selorm, F., (2019). Audit of Auditoriums in an Academic Setting, Ghana. Journal of Building Construction and Planning Research, 7, pp. 99-114
9. Koranteng, C., **Simons, B.,** Nyame-Tawiah, D., (2019). Green to Grey: An Urban Heat Assessment of Kumasi, Ghana. International Journal of Environment and Climate Change, 9(12), pp. 751-763
10. Agyekum, K., **Simons, B.,** Botchway, S. Y., (2018). Factors influencing the performance of safety programmes in the Ghanaian construction industry. Acta Structilia, 25(2): pp. 39-61
11. Koranteng, C., Nkrumah, J., **Simons, B.,** (2016). Glass facades in contemporary architecture: the case of multi-storey office buildings in Accra, Ghana. Journal of Scientific Research and Studies, 3 (1): pp. 6-12.
12. Koranteng, C., **Simons, B.,** Nyame-Tawiah, D., (2016). Is It Necessary to Cool Residential Homes? A Bioclimatic Analysis of Window Position and Sizes on Indoor Comfort in the Tropics. Global Journal of Engineering Science and Research Management, 3 (1): pp. 6-15.
13. **Simons, B**.,Koranteng, C., Ayarkwa, J., (2017). A Tale of Two Cities: An Analysis of the Thermal Performance of Glazed Office Buildings in Ghana. Conference proceedings: *Sixth International Conference on Infrastructure Development in Africa (ICIDA) at K.N.U.S.T, Kumasi,*  April 12th-14th, 2017, pp. 387-394
14. Koranteng, C., **Simons, B**., Essel, C., (2017). An Empirical Analysis of the Thermal Performance of Curtain Wall Office Buildings in Ghana: The Window-To-Wall Ratio Effect. Conference proceedings: *Sixth International Conference on Infrastructure Development in Africa (ICIDA) at K.N.U.S.T, Kumasi,*  April 12th-14th , 2017,pp. 346-357
15. Koranteng, C., **Simons, B**., Essel, C., (2017). Fraction of Time: A Phenomenon towards the Reduction of Indoor Discomfort in Office Buildings, Ghana. Conference proceedings: *Sixth International Conference on Infrastructure Development in Africa (ICIDA) at K.N.U.S.T, Kumasi,* April,12th- 14th, 2017, pp. 368-376
16. Koranteng, C., Essel, C. **Simons, B**., (2017). Going Natural: An Occurrence Leading To the Reduction of Temperature Values in Ghanaian Office Buildings-Kumasi. Conference proceedings: *Sixth International Conference on Infrastructure Development in Africa (ICIDA) at K.N.U.S.T, Kumasi,*  April, 12th- 14th, 2017,pp. 301-310
17. Koranteng, C., **Simons, B**., Essel, C., (2016). Reduction of Cooling Loads in Multi-Storey Glazed Office Buildings in Ghana: GHGBC Versus Architectural Design Parameters. International Journal of Engineering, Researches and Management Studies (IJERMS), 3 (10), pp. 36-44. ISSN: 2394 - 7659
18. Koranteng, C., Nkrumah, J., **Simons, B**., (2016). Glass Facades in Contemporary Architecture: The case of Multi-Storey Office Buildings in Accra, Ghana. Journal of Scientific Research and Studies, 3(1), pp. 6-12. ISSN: 2375 - 8791
19. Koranteng, C., **Simons, B**., Nyame-Tawiah, D., (2016). Is it Necessary to Cool Residential Homes? A Bioclimatic Analysis of Window position and sizes on Indoor Comfort in the Tropic. Global Journal of Engineering Science and Research Management, 3 (1), pp. 7-15. ISSN: 2349 - 4506
20. **Simons**, **B**., Koranteng, C., Ayarkwa, J., (2015). Practical Energy Saving Techniques for Multi-Storey Office Buildings in Accra, Ghana. International Journal of Engineering and Computer Science, 4 (12), pp. 15262-15273. ISSN: 2319 - 7242
21. **Simons**, **B**., Koranteng, C., Ayarkwa, J., (2015). Simulation-based assessment of the thermal performance of high-rise office buildings in Ghana. British Journal of Applied Science and Technology, 8 (2), pp. 165-179. ISSN 2231-0843. Available at [www.sciencedomain.com](http://www.sciencedomain.com)
22. **Simons**, **B**., Koranteng, C., Adinyira, E., Ayarkwa, J., (2014). An Assessment of Thermal Comfort in Multi - Storey Office Buildings in Ghana. Journal of Building Construction and Planning Research, 2 (1), pp. 30-38. Available at <http://dx.doi.org/10.4236/jbcpr.2014.21003>.
23. **Simons**, **B**., Koranteng, C., Adinyira, E., (2014). Indoor Thermal Environment Occupants Responsiveness in 4 Multi-Storey Office Buildings in Accra, Ghana. Journal of Environment and Earth Science, (4) 4, pp. 122-130. ISSN 2225-0948, (USA, UK and Hong Kong).
24. **Simons**, **B**., Koranteng, C., Ayarkwa, J., (2014). Occupants’ Evaluation of the Operation, Functionality of Building Control Systems and Energy Implications in Multi Storey Office Buildings in Ghana. Journal of Energy and Policy, (4) 2, pp. 48-58. ISSN 2225- 0573, (USA, UK, Hong Kong).
25. **Simons**, **B**., Koranteng, C., Adinyira, E., (2014). Assessing Ghanaian Workplace Performance in Multi-Storey Office Buildings. Journal of Developing Country Studies, (4) 4, pp. 140-151. ISSN 2225-0565. International Institute for Science, Technology and Education, (USA, UK and Hong Kong).
26. **Simons B**., Koranteng C. and Nkrumah J. (2013). Assessing Thermal Comfort and Design Strategies of Residential Houses in Ghana, *3rd International Conference on Design, Development & Research,* Faculty of Art, College of Art & Social Sciences, Kwame Nkrumah University of Science and Technology, Kumasi – Ghana, July 18-20, pp.122-132.
27. **Simons B.**, Odame B. G., and Koranteng C. (2013). The Visual Performance of Common Spaces and its Effect on Occupants’ Satisfaction in Educational Buildings, *3rd International Conference on Design, Development & Research,* Faculty of Art, College of Art & Social Sciences, Kwame Nkrumah University of Science and Technology, Kumasi – Ghana, July 18th-20th, pp. 312-323.
28. **Simons**, **B**., Koranteng, C., and Woanyah-Deladem, S., (2012). Thermal comfort evaluation of high-rise buildings in Accra, Ghana. Advances in Applied Science Research, 3 (1), pp. 502-507. ISSN 0976-8610.
29. Koranteng, C., and **Simons**, **B**., (2012). An evaluation of natural lighting levels in students’ hostels in a suburb of Kumasi, Ghana. Advances in Applied Science Research, 3 (1), pp 548-554. ISSN 0976-8610.
30. Koranteng, C., and **Simons**, **B**., (2011). Contrasting the Principles behind the Orientation of Building Forms and Location of Spatial Components around the Globe. Journal of Science and Technology, (31) 3, pp 77-85
31. **Simons B**., Essel C., and Koranteng C. (2011). The concurrent use of efficient materials and technology towards the thermal retrofit potential of office buildings in Kumasi, Ghana, West Africa Building and Construction Seminar, Accra, May 4th-6th, 2011.
32. **Simons B**., Essel C., and Koranteng C. (2011). The effects of improved building materials on the thermal performance of residential buildings, West Africa Building and Construction Seminar, Accra, May 4th-6th, 2011.

**KEY ATTRIBUTES**

Good Communication Skills, Team Leader, Creative, Self discipline, Honest, Trustworthy Sincere and bold.