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## **Contact Information**

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## **Research Profile**

**Fellow:** EU Marie Skłodowska-Curie Actions (MSCA);

**Fellow:** The Irish Research Council (IRC)

**Research Specialization Keywords:** Mining, Sustainable Mining, Mine Land Use Suitability, Spatial Data Capture and Management, Environmental Impact Assessment, Resettlement.

**Research Disciplines:** Resource Development, Earth Observatory Satellite Systems, Earth Science; Environmental Sciences, and Geography.

**Areas of Research:** Mineral Resource Development, Mine Development Processes, Mining Land Use and Conflicts, Geological Mapping and Mineralogy, Sustainable Resettlement, Resource Management, Environmental Auditing and Aspects Identification.

**Fields of Application:** Mining and Mineral Resource Development, Industrial Manufacturing and Production, Environmental Management, Land Information Management, Rural-Urban Planning, Mine Site Hazard Tracking and Management, Precision Agricultural Development, Economic Policies, Security Surveillance, Natural Resources, etc.

## **Degrees**

10/2012 to 6/2016: **Doctor of Philosophy (PhD)**, Spatial Sciences—Western Australian School of Mines, Curtin University of Technology, Perth, Australia.

09/2007 to 8/2011: **Bachelor's Honours**, Geography and Resource Development, University of Ghana, Legon, Accra.

## Certificates

Ongoing; **Certificate in Quality and Qualifications in Project Management**

06/2019 – 12/2020; **Certificate of Advance Studies in Geomatics for Sustainable Development**

11/2020 - 12/2020; **Gender and Mining Governance**

07/2019; **Research Integrity – Natural and Physical Sciences**

06/2019; **EIT RawMatCop Academy Certificate on Earth Observation for Sustaining Raw Materials Supply Chain**

03/2019 – 05/2019; **Environmental Security and Sustaining Peace**

## Employment History

2018 to present: **Lecturer**

School of Geosciences, University of Energy & Natural Resources (UENR)

01/2018 to 08/2018: **Lecturer**

Department of Geography & Rural Development, Faculty of Social Science, College of Humanities and Social Science, Kwame Nkrumah University of Science & Technology

01/2013 to 12/2016: **Sessional Academic & Examinations Supervisor**

Western Australian School of Mines (WASM), Faculty of Science & Engineering, Department of Spatial Sciences, Curtin University of Technology. Tenure Status: Tenure

4/2014 – 12/2014: **Invigilator,**

Australian Curriculum Assessment Reporting Authority (ACARA), NCS Pearson Pty Ltd.

## Affiliations

**International Fellow:** European Union's (EU) Horizon 2020 (H2020) Programme, under the Marie Skłodowska-Curie Actions scheme; University College Dublin (UCD), Ireland; on secondment to;

Crisis Management Branch, United Nations Environment Programme (UNEP), Europe Regional Office, Geneva, Switzerland

**Guest Scientist:** Global Resources Information Division (GRID), Science Division, UNEP, Geneva, Switzerland

**Invited Researcher:** Institute of Environmental Sciences, University of Geneva, Switzerland

## Research Funding History

### 02/2018 – 05/2021

EU Horizon 2020 research and innovation programme under the Marie Skłodowska-Curie grant agreement No 713279: Total Grant (€254,256.60)

### 11/2013 – 6/2016

The Crawford Fund of Australia; Research Training and Fieldwork (AUD12,000.00)

### 11/2013 – 2/2016

International Mining for Development Centre (IM4DC); Action Research Funding (AUD10,000.00)

## Selected Publications

### Journal Articles

1. A.-W. Moomen, Lacroix, P., Bertolotto, M., & Jensen, D. (2020). *The Drive towards Consensual Perspectives for Enhancing Sustainable Mining*. Resources, 9(12), 147. DOI: <https://doi.org/10.3390/resources9120147>.
2. A.-W. Moomen, D. Jensen, P. Lacroix, M. Bertolotto (2019). *Assessing the Policy Adoption and Impact of Geoinformation for enhancing Sustainable Mining in Africa*. Journal of Cleaner Production. 241 (2019) 118361. DOI: <https://doi.org/10.1016/j.jclepro.2019.118361>
3. A.-W. Moomen, M. Bertolotto, P. Lacroix, & D. Jensen (2019). *Inadequate Adaptation of Geospatial Information for Sustainable Mining towards Agenda 2030 Sustainable Development Goals*. Journal of Cleaner Production. 238 (2019) 117954. DOI: <https://doi.org/10.1016/j.jclepro.2019.117954>
4. AW Moomen, A Dewan (2017). *Assessing the spatial relationships between mining and land degradation: evidence from Ghana*. International Journal of Mining, Reclamation & Environment. 31(7): 505-518. Published Refereed? Yes, Open Access? Yes. <https://doi.org/10.1080/17480930.2016.1188253>.
5. AW Moomen, A Dewan (2017). *Probing the perspectives of stakeholder engagement and resistance against large-scale surface mining in developing countries*. Corporate Social Responsibility and Environmental Management. 24(2): 85-95. Published. Refereed? Yes, Open Access? Yes. <https://doi.org/10.1002/csr.1396>.
6. AW Moomen. (2017). *Strategies for managing large-scale mining sector land use conflicts in the global south*. Resources Policy. 51: 85-93. Published. Refereed? Yes, Open Access? Yes. <https://doi.org/10.1016/j.resourpol.2016.11.010>.
7. AW Moomen, A Dewan, R Corner. (2016). *Landscape Assessment for Sustainable Resettlement of Potentially Displaced Communities in Ghana's emerging North-west*

- Gold Province*. Journal of Cleaner Production. 133: 701–711. Published. Refereed? Yes, Open Access? Yes. <https://doi.org/10.1016/j.jclepro.2016.06.004>.
8. AW Moomen, A Dewan (2016). *Investigating Potential Mining Induced Water Stress in Ghana's North-West Gold Province*. Extractive Industries and Society. 3(3): 802–812. Published. Refereed? Yes, Open Access? Yes. <https://doi.org/10.1016/j.exis.2016.04.002>.
  9. AW Moomen, A Dewan (2016). *Analysis of spatial interactions between the Shea industry and Mining sector activities in the emerging north-west gold province of Ghana*. Resources Policy. 48: 104-111. Published. Refereed? Yes, Open Access? Yes. <https://doi.org/10.1016/j.resourpol.2016.03.001>.

### **Selected Full-Length Peer-reviewed Conference Publications**

1. AW Moomen, M Bertolotto, P Lacroix, & D. Jensen (2019). *Exploring Spatial Symbiosis of Agriculture and Mining for Sustainable Development in Northwest Ghana*. IEEE Xplore. Extended Conference Paper. Refereed? The 8<sup>th</sup> International Conference on Agro-Geoinformatics, Istanbul, Turkey. Conference Date: 2019/7. **Publisher:** IEEE. **DOI:** 10.1109/Agro-Geoinformatics.2019.8820500.
2. AW Moomen, I Yussif (2019). *Evaluation of Farmland availability and Large-Scale Mining Sector Activities at Village Scale*. IEEE Xplore. The 8<sup>th</sup> International Conference on Agro-Geoinformatics. Istanbul, Turkey. Conference Date: 2019/7. Extended Paper **Publisher:** IEEE. **DOI:** [10.1109/Agro-Geoinformatics.2019.8820560](https://doi.org/10.1109/Agro-Geoinformatics.2019.8820560). Refereed? Yes.
3. AW Moomen, A Dewan. (2015). *Mining, Agricultural space and land use conflicts: the role of local government*. IEEE Xplore. The 4<sup>th</sup> International Conference on Agro-Geoinformatics, Istanbul, Turkey. Conference Date: 2015/7. Extended Paper **Publisher:** IEEE. **DOI:** [10.1109/Agro-Geoinformatics.2015.7248103](https://doi.org/10.1109/Agro-Geoinformatics.2015.7248103). Refereed? Yes.

### **Selected Presentations**

1. (2019). *Mapping potential ramifications of Illegal Artisanal Small-Scale Mining Activities onto the Sustainable Development Goals in Northwest Ghana*. Harnessing the Extractive Industries for Development 2019 (EX4DEV19) Forum: the link between Artisanal and Small-Scale Mining (ASM) and the Sustainable Development Goals (SDGs). 8<sup>th</sup> November 2019. Surrey Business School, University of Surrey, Guilford Surrey, UK. Main Audience: Development Consultancies, Policymakers, and NGOs.

2. (2019). *Evaluation of Farmland availability and Large-Scale Mining Sector Activities at Village Scale*. The 8<sup>th</sup> International Conference on Agro-Geoinformatics; 16-19 July, 2019., Istanbul, Turkey. Main Audience: Researcher.
3. (2019). *Exploring the Spatial Symbiosis of Agriculture and Mining for Sustainable Development in Northwest Ghana*. The 'CAROLINE' "Collaborative Research for a Responsive and Innovative Europe" research workshop. The Irish Research Council (IRC), Dublin. 25<sup>th</sup> September 2019. Main Audience: Knowledge User, Researcher
4. (2018). *Impacts of climate change on the environmental risks of mining and a secure raw material supply*. Expert workshop; climate change and adaptation, mining, ecology and supply chain management. Adelphi Research, Berlin, Germany: 29<sup>th</sup> November.
5. (2018). *Development of Time Robust Geoinformation for Enhancing Sustainable Mining in Northwest Ghana*. MapX; Global Resources Information Division, Science Division, UNEP, International Environment House, Geneva, Switzerland: 20<sup>th</sup> Nov.

## Journal Review Activities

### 2016 – to Present:

Reviewer; **Resources Policy, Elsevier Journal**

Reviewer; **Land Degradation and Development, Wiley Journal**

Reviewer; **Natural Resource Forum, Wiley Journal**

Reviewer; **Resources, MDPI Journal**

Reviewer; **Corporate Social Responsibility and Environmental Management**

Reviewer; **Journal of Cleaner Productions, Elsevier Journal**

Reviewer; **Environment, Development and Sustainability, Springer**

Reviewer; **Journal of Environmental Planning and Management, Taylor & Francis**

Reviewer; **Environmental Pollution, Elsevier**

Reviewer; **Aviation, Taylor & Francis Journal**

Reviewer; **Journal of Agricultural Economics, Taylor and Francis**

Reviewer; **Journal of Geoinformation, MDPI**

## Organizational Review Activities

2014-2014: Test Administrator, Pearson Research Institute of Australia; Australian Curriculum Assessment and Reporting Authority's (ACARA); National Assessment Program (NAP)

## Other Memberships

2019 – Present: Member, Artisanal Small-Scale Mining Geospatial Discussion Group, UNEP

2017- Present: Accra Mining Network (AMN); Corporate Social Responsibility (CSR)

2019 – Present: Environmental Peacebuilding Association

2019 – Present: Future Earth

2019 – Present: AfriGEOSS (Africa Group on Earth Observation and Satellite Systems)

2015 – 2016: Member, Western Australian Mining Club

2013 – 2016: Africa Australia Research Forum (AARF), Perth, Australia

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