

## OLADIPO, Mumin Olatunji

### Personal Information

|                         |                                                  |
|-------------------------|--------------------------------------------------|
| Place of Birth:         | Offa                                             |
| Sex:                    | Male                                             |
| L.G.A. and State:       | Offa / Kwara                                     |
| Nationality:            | Nigerian                                         |
| Permanent Home Address: | 14, Olatunji Street, Offa, Kwara State, Nigeria. |
| Current Postal Address: | P. O. Box 291, Ilorin                            |
| Cell Phone Number:      | +2348032426816, +2348035888168                   |
| Email Address:          | muminoladipo@gmail.com                           |
| Marital Status:         | Married                                          |
| Number of Children:     | 1                                                |

### Institutions Attended

| S/N | Institutions                                                             | Qualifications Titles               | From | To   |
|-----|--------------------------------------------------------------------------|-------------------------------------|------|------|
| 1.  | University of Ilorin, Ilorin, Nigeria                                    | PhD Physics (c)                     | 2017 |      |
| 2.  | University of Ilorin, Ilorin, Nigeria                                    | M.Sc. Physics                       | 2014 | 2016 |
| 3.  | University of Maiduguri, Borno State, Nigeria                            | PGDE (English Medium)               | 2013 | 2014 |
| 4.  | Kebbi State University of Science and Technology, Aliero, Nigeria        | B. Sc. Physics (Second Class Upper) | 2008 | 2012 |
| 5.  | Staff Secondary School, Federal Polytechnic, Offa, Kwara State, Nigeria  | SSCE (WAEC)                         | 2001 | 2007 |
| 6.  | Ife-Oluwa Baptist Nursery and Primary School, Offa, Kwara State, Nigeria | First School Leaving Certificate    | 1995 | 2001 |

### Research Interests

| Research Fields                                                                                        |
|--------------------------------------------------------------------------------------------------------|
| Renewable Energy, Solar Weather, Wireless Communication, Geosciences, Electronics and Embedded Systems |

### Programing Languages and Professional Software

| Programming Languages and Software Skills                                                                                                                                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Python, Structure Query Language (SQL), Matlab, PIC – assembly language, C and PIC BASIC pro, Arduino, Raspberry Pi, Protues, Long Wave Propagation Code (LWPC) and Multism |

### Relevant Academic and Research Experience

| <b>S/N</b> | <b>Organisations/ Roles</b>                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>1.</b>  | <b><u>Assistant Lecturer</u></b><br><b>KolaDaisi University, Ibadan</b> 11/2018- present<br>- Teaching and research in Physics<br>- Community services<br>- Demonstrate practical to students                                                                                                                                                                                                                                        |
| <b>2.</b>  | <b><u>Subject Teacher</u></b><br><b>Omowumi Model College, Ilorin</b> 05/2014 – 07/2017<br>- Taught and demonstrate Physics Practical<br>- Taught Mathematics                                                                                                                                                                                                                                                                        |
| <b>3.</b>  | <b><u>Subject Teacher</u></b><br><b>Guidance Standard School, Kano</b> 10/2013 – 05/2014<br>- Taught basic science subjects                                                                                                                                                                                                                                                                                                          |
| <b>4.</b>  | <b><u>NYSC</u></b><br><b>Bayero University, Kano</b> 04/2013 – 03/2014<br>- Demonstrated Physics Practical to undergraduate students                                                                                                                                                                                                                                                                                                 |
| <b>5.</b>  | <b><u>SIWES</u></b><br><b>Sheda Science and Technology Complex, Abuja</b> 08/2011 – 02/2012<br>- Learnt basic electronics design and construction<br>- Participated in research in the field of solid state and semiconductor physics<br>- Observed the development and optimization of solar panels<br>- Introduced to equipment such as solar simulator, thin film deposition machine, semiconductor characterization machine etc. |

### Industry Experience

| <b>S/N</b> | <b>Research\Project Titles</b>                                                                                                                                                                                                                                          |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>1.</b>  | <b><u>Mutems Technologies, Nigeria</u></b> 08/2018 –<br>- Chief Technical Officer (C.T.O)<br>- Design and implementation of solar and inverter power solutions for homes and offices.<br>- Plan logistics for projects.<br>- Supervision of power system installations. |

### Publications (journal) and abstract presentations

|           |                                                                                                                                                                                                                                                                                                                                                                               |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>1.</b> | Bello, S. A., Yusuf, K. A., Agbaje, P., Shehu, S. J., Lawal, S. K., Oyinkanola, L. O. A., <b>Oladipo, M.O.</b> (2023). EFFECT OF SOLAR WIND PRESSURE ON GEOMAGNETIC NORTHWARD COMPONENT OVER SOME SELECTED LOW-LATITUDE AFRICAN STATIONS. <i>FUW Trends in Science &amp; Technology Journal</i> , 8(1), 642–648. <a href="http://www.ftstjournal.com">www.ftstjournal.com</a> |
| <b>2.</b> | <b>Oladipo, M. O.</b> (2023). Benefits of Open Data/ Software Sharing in Open Science. <i>American Geophysical Union- CHORUS</i> .                                                                                                                                                                                                                                            |

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|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>3.</b>  | <b>Oladipo, M. O.</b> , Adimula, A. I., Olawepo, A., Bello, S. A., & Joshua, B. W. (2023). Seasonal quiet-day morphology of VLF signal strength at Ibadan. <i>Advances in Space Research</i> .<br><a href="https://doi.org/10.1016/j.ASR.2023.01.059">https://doi.org/10.1016/j.ASR.2023.01.059</a>                                                                                                                                    |
| <b>4.</b>  | Yusuf, K. A., Adimula, I. A., Bello, S. A., Ige, S. O., Oluwatoyin Osanyinlusi, & <b>Oladipo, M. O.</b> (2023). Characterization of the geomagnetic H <sub>z</sub> component for a paired station in Africa. <i>Caliphate Journal of Science &amp; Technology (CaJoST)</i> , 3121(1), 10–15.<br><a href="https://dx.doi.org/10.4314/cajost.v5i1.2">https://dx.doi.org/10.4314/cajost.v5i1.2</a>                                        |
| <b>5.</b>  | Bello S. A., Orisatuyi M.J., Yusuf K.A., Shehu S.J., Oyinkanola L.O.A., Ige S.O., Lawal S.K., <b>Oladipo M.O.</b> (2022). Performance Estimation of Neural Network TEC Prediction Models Over TORO Station. <i>Nigerian Journal of Physics</i> , 31(2), 160–168.                                                                                                                                                                       |
| <b>6.</b>  | Bello, S. A., <b>Oladipo, M. O.</b> , Muhammed, A. O., Yusuf, K. A., Ige, S. O., Shehu, S. J., & Oyinkanola, L. O. A. (2022). MEASUREMENT AND DESCRIPTION OF VERY LOW-FREQUENCY SIGNAL IN THE IONOSPHERE AT THE ILORIN STATION. <i>FUW Trends in Science &amp; Technology Journal</i> , 7(3), 78–83. <a href="http://www.ftstjournal.com">www.ftstjournal.com</a>                                                                      |
| <b>7.</b>  | Wisdom, J. B., Yushau, S. M., Muhammad, G., Kangiwa, U. M., Mustapha, A., & <b>Oladipo, M. O.</b> (2021). Monitoring of Sudden Ionospheric Disturbance (SID) with 0 – 50 kHz Frequency Receiver over Aliero, Nigeria. <i>International Journal of Astrophysics and Space Science.</i> , 9(3), 37–44. <a href="https://doi.org/10.11648/j.ijass.20210903.11">https://doi.org/10.11648/j.ijass.20210903.11</a>                           |
| <b>8.</b>  | Quaye, D. T., Martin, P., <b>Oladipo, M.O.</b> , Silvestri, S., & Wagner, G. (2022, December). Entraining West African scientists into the global science enterprise via open-source software and cloud computing. In <i>Fall Meeting 2022</i> . AGU.                                                                                                                                                                                  |
| <b>9.</b>  | <b>Oladipo, M.O.</b> (2022, December). Open-source Science: A Success Story in West Africa. In <i>Fall Meeting 2022</i> . AGU.                                                                                                                                                                                                                                                                                                         |
| <b>10.</b> | <b>Oladipo, M.O.</b> , Adimula I. A. (2022, December). Quiet-Day Variations of VLF Amplitude and its Correlation with Meteorological Parameters. In <i>Fall Meeting 2022</i> . AGU.<br><a href="http://agu2022fallmeeting-agu.ipostersessions.com/Default.aspx?s=A3-92-E2-19-8C-45-78-DD-F3-BC-95-BF-C6-21-9B-02">http://agu2022fallmeeting-agu.ipostersessions.com/Default.aspx?s=A3-92-E2-19-8C-45-78-DD-F3-BC-95-BF-C6-21-9B-02</a> |
| <b>11.</b> | <b>Oladipo, M. O.</b> , Adimula, A. ., & Olawepo, A. (2021). IMPLEMENTATION OF LOW-ENERGY VLF DATA LOGGER FOR CHARACTERIZING THE LOWER IONOSPHERE AT IBADAN. <i>Science Forum: Journal of Pure and Applied Sciences (JPAS)</i> , 21(3). <a href="http://www.atbuscienceforum.com">www.atbuscienceforum.com</a>                                                                                                                         |
| <b>12.</b> | Joshua B. W., <b>Oladipo M.</b> , Adamu J. L., Adebisi S. J., Ikubanni. S. O. (2018). CORRELATION BETWEEN SUNSPOT NUMBER AND GEOMAGNETIC STORM. <i>Equity Journal of Science and Technology</i> , 5(1), 157–161.                                                                                                                                                                                                                       |

### Ongoing research

| S/N | Research\Project Titles                                   |
|-----|-----------------------------------------------------------|
| 1.  | Characterization of D-layer Over Nigeria Using VLF signal |

### Membership of Learned Professional Societies

| S/N | Organization |
|-----|--------------|
|-----|--------------|

|           |                                     |
|-----------|-------------------------------------|
| <b>1.</b> | American Geophysical Union (AGU)    |
| <b>2.</b> | Nigerian Institute of Physics (NIP) |
| <b>3.</b> | Nigerian Geophysical Society (NGS)  |

### **Scholarship, Grants, and Fellowship**

| <b>S/N</b> | <b>Name of Scholarship, Grants, and Fellowship</b>                                                                     |
|------------|------------------------------------------------------------------------------------------------------------------------|
| <b>1.</b>  | <b>2022 American Geophysical Union (AGU) Outstanding Student Presentation Award (Fall Meeting)</b>                     |
| <b>2.</b>  | <b>2022 AGU Fall Meeting Grant:</b> Grant from the Education towards participating in the <i>2022 AGU Fall Meeting</i> |
| <b>3.</b>  | 2022 Coastal Environment Summer School in Nigeria grant for instructor                                                 |

### **Academic and Industry Linkages**

| <b>S/N</b> | <b>Organizations</b>                                                                                         |
|------------|--------------------------------------------------------------------------------------------------------------|
| <b>1.</b>  | Interconnections for Making Africa Great Empowered and Sustainable (IMAGES) Initiative                       |
| <b>2.</b>  | Institute of Astronomy Space and Earth Science, Kolkata, India (MoU in progress)                             |
| <b>3.</b>  | Coastal Environment Summer School in Ghana                                                                   |
| <b>4.</b>  | Department of Mathematical and Computing Sciences, Faculty of Applied Sciences, KolaDaisi University- Ibadan |
| <b>5.</b>  | Mutems Technologies, Nigeria                                                                                 |
| <b>6.</b>  | Novel Power Systems, Nigeria                                                                                 |
| <b>7.</b>  | Department of Physics, Faculty of Physical Sciences, University of Ilorin, Nigeria                           |
| <b>8.</b>  | Department of Physics, Kebbi State University of Science and Technology, Aliero, Nigeria                     |
| <b>9.</b>  | Sheda Science and Technology Complex, Abuja, Nigeria                                                         |

### **Major Conferences and Workshops Attended**

| <b>S/N</b> | <b>Conferences and Workshops</b>                                                                                                         | <b>Duration</b>          |
|------------|------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| <b>1.</b>  | Coastal Environment Summer School in Nigeria, COESSIN 2022                                                                               | August 1- 5, 2022        |
| <b>2.</b>  | KolaDaisi University First Scientific Conference on “Emerging Research in Science and Technology for Health and Sustainable Development” | March 1- 4, 2022         |
| <b>3.</b>  | Coastal Environment Summer School in Ghana (COESSING), 2021- virtual.                                                                    | July 26 – August 6, 2021 |
| <b>4.</b>  | Two Day Workshop on “Aligning Yourself to the Publishing Process” at Elsevier                                                            | Friday July 24, 2020     |
| <b>5.</b>  | Coastal Environment Summer School in Ghana (COESSING), 2019. Regional Maritime University, Ghana                                         | August 5- 10, 2019       |

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|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| <b>6.</b> | The Abdus Salam, International Center for Theoretical Physics, Italy: The Coastal Ocean Environment Summer School in Ghana.                                                                                                                                                        | July 30 – August 4, 2018 |
| <b>7.</b> | 3rd Annual Conference of the Nigeria Geophysical Society: Space – Earth Environment For Sustainable National Development. Landmark University, Omu-Aran, Kwara State.                                                                                                              | February 2 – 5, 2016     |
| <b>8.</b> | International Union of Radio Science (URSI- NG), 6th National Annual Conference. University of Ilorin, Ilorin, Kwara State, Nigeria.                                                                                                                                               | December 2 – 5, 2015     |
| <b>9.</b> | 2-Day National Training Workshop on Application of Renewable Energy Devices and Climate Mitigation in North-West Region (Organised by the Energy Commission of Nigeria and Kebbi State Government). Kebbi State University of Science and Technology, Aliero, Kebbi State, Nigeria | March 7 – 8, 2011        |

### **Training Programmes Attended**

| <b>S/N</b> | <b>Training</b>     | <b>Courses</b>                                 | <b>Institutions</b>                         | <b>From</b> | <b>To</b> |
|------------|---------------------|------------------------------------------------|---------------------------------------------|-------------|-----------|
| 1.         | Python              | Coastal Ocean Environment Summer School, Ghana | Abdus Salam, ICTP, Italy                    | 2018        | 2018      |
| 2.         | Industrial Training | Electronics and Solid State Physics            | Sheda Science and Technology Complex, Abuja | 2011        | 2012      |
| 3.         | Computer Training   | Microsoft Application and System Maintenance   | Federal Polytechnic, Offa                   | 2007        | 2008      |

### **Details of Administrative Experience and Community Service**

| <b>S/N</b> | <b>Positions Held</b>                                                                                          | <b>Role/ Achievements</b>                                                                                        | <b>From</b> | <b>To</b> |
|------------|----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|-------------|-----------|
| <b>1.</b>  | <b>Member, Grant Writing Committee</b><br>Faculty of Applied Sciences,<br>KolaDaisi University, Ibadan (KDU-I) | - Grant Identification<br>- Development of fundable projects for the faculty<br>- Grant writing                  | 01/2023     |           |
| <b>2.</b>  | <b>Member, Editorial Board</b><br>KolaDaisi University Journal of Applied Sciences (KUJAS)                     | - Coordinates peer-review process of submitted manuscripts.                                                      | 08/2022     |           |
| <b>3.</b>  | <b>Staff adviser, National Space Research and Development Agency, NASRDA, Club,</b><br>KDU- I Chapter          | - Monitor the activities of the club<br>- Jointly propose and supervise science projects by members of the club. | 05/2022     |           |
| <b>4.</b>  | <b>Instructor, COESSIN, 2022</b>                                                                               | - Taught participants Python for data science                                                                    | 08/2022     | 08/2022   |

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|------------|------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------|
| <u>5.</u>  | <b>Member, Admission Committee, KDU- I</b>                                                                                   | <ul style="list-style-type: none"> <li>- Put into place strategies to attract students to the University.</li> <li>- Set-up Robotics groups to encourage students to practically apply what they learn.</li> </ul> | 08/2022 |         |
| <u>6.</u>  | <b>Member, FAPS Admission Committee</b>                                                                                      | <ul style="list-style-type: none"> <li>- Organized the maiden quiz and science exhibition.</li> </ul>                                                                                                              | 04/2022 |         |
| <u>7.</u>  | <b>Member, Conference Organizing Committee, FAPS, KDU- I</b>                                                                 | <ul style="list-style-type: none"> <li>- Was the secretary of the committee</li> <li>- Organized the maiden scientific conference of the faculty and the university in 2022.</li> </ul>                            | 02/2022 | 09/2022 |
| <u>8.</u>  | <b>Member, Academic Planning Committee, FAPS, KDU- I</b>                                                                     | <ul style="list-style-type: none"> <li>- Curriculum review</li> </ul>                                                                                                                                              | 2021    | 2022    |
| <u>9.</u>  | <b>Founder, KDU-I Robotics and Artificial Intelligence Research Group.</b>                                                   | <ul style="list-style-type: none"> <li>- Suggests projects to work on</li> <li>- Co-finances projects</li> <li>- Coordinates the development of projects.</li> </ul>                                               | 2021    |         |
| <u>10.</u> | <b>Member, Seminar and workshop Committee, FAPS, KDU- I</b>                                                                  | <ul style="list-style-type: none"> <li>- Organized faculty seminars.</li> </ul>                                                                                                                                    | 2019    | 2022    |
| <u>11.</u> | <b>Member, Staff Recruitment Panel, OMC</b>                                                                                  | <ul style="list-style-type: none"> <li>- Interview and recommend potential teaching staff for teaching appointments.</li> </ul>                                                                                    | 2014    | 2017    |
| <u>12.</u> | <b>President</b> , Millennium Development Goals (MDGs), Family and Community Reorientation (FACOR) Group, NYSC, Kano Chapter | <ul style="list-style-type: none"> <li>- Sensitized secondary school students on the <b>MDGs/FACOR</b></li> <li>- Organized Monthly Community Development Meetings.</li> </ul>                                     | 2013    | 2014    |
| <u>13.</u> | <b>Secretary</b> , Zero Tolerance for Corruption Club, Kebbi State University of Science and Technology (KSUSTA) Chapter.    | <ul style="list-style-type: none"> <li>- Pioneer secretary</li> <li>- Raised funds for the club activities.</li> </ul>                                                                                             | 2011    | 2012    |
| <u>14.</u> | <b>P. R. O.</b> , National Association of Physics Students, Aliero Chapter.                                                  | <ul style="list-style-type: none"> <li>- Spoke person of the Association.</li> <li>- Inspired students to see the beauty of science and technology</li> </ul>                                                      | 2009    | 2011    |

|            |                                                                                        |                                                                                   |      |      |
|------------|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------|------|
| <b>15.</b> | <b><i>Class Representative</i></b> , Department of Physics, KSUSTA, Aliero.            | - Spoke person for the class<br>- Liaise with lecturer on behalf of the class     | 2008 | 2012 |
| <b>16.</b> | <b><i>Laboratory Prefect</i></b> , Staff, Secondary School, Federal Polytechnic, Offa. | - Manage the school laboratories<br>- Revived and managed the laboratory aquarium | 2006 | 2007 |

### **Names and Addresses Referees**

#### **Prof. I.A. Adimula**

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University of Ilorin, Ilorin,  
Kwara State.

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