

Gafari Lukumon

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EDUCATION

- 2020–2024 **University Mohammed VI Polytechnic, Morocco**
Ecole Normale Supérieure, Paris (Cotutelle)
Ph.D. (Honors) in *Cognitive Science*.
Thesis: Myside bias and the spread of information within Groups.
- 2018–2019 **University of KwaZulu-Natal, South Africa**
M.Sc. in Mathematics (Cum Laude)
Thesis: Numerical Solution of Klein-Gordon equation in an unbounded domain
- 2011–2015 **Ekiti State University, Ado-Ekiti**
B.Sc. (Ed.) in Mathematics (First Class)

ACADEMIC EXPERIENCE

- 2020–2024 Teaching Assistant, University Mohammed VI Polytechnic, Morocco.
- 2018–2020 Teaching Assistant, University OF KwaZulu-Natal, South Africa.
- 2014
2016–2017 Mathematics Tutor Emmanuel Alayande College of Education Model High School,
Oyo, Nigeria.
- 2016 Lecturer Assistant, Federal University of Agriculture, Abeokuta, Nigeria (NYSC).
- 2016 Part-time Lecturer Federal College of Education, Osiele, Nigeria.
- 2015 Mathematics Tutor, Nesto College, Oyo, Nigeria.

JOURNAL PUBLICATIONS

1. **Lukumon, G.**, & Klein, M. (2023). Crowd-sourced idea filtering with Bag of Lemons: the impact of the token budget size. *Decision*, 50(2), 205-219. [\[Link\]](#)
2. El Habouz, Y., El Mourabit, Y., Iggane, M., El Habouz, H., **Lukumon, G.**, & Nouboud, F. (2023). Efficient semi-supervised learning model for limited otolith data using generative adversarial networks. *Multimedia Tools and Applications*, 1-14. [\[Link\]](#)
3. Anlló, H., Bavard, S., Benmarrakchi, F., Bonagura, D., Cerrotti, F., Cicue, M., ..., **Lukumon G.**, ...

- & Palminteri, S. (2023). Comparing experience-and description-based economic preferences across 11 countries. *Nature Human Behaviour*, 1-14. [\[Link\]](#)
4. **Lukumon, G.**, & Maharaj, A. (2022). Students' Experiences on the Remote Teaching and Learning of Linear Algebra During COVID-19. *African Journal of Research in Mathematics, Science and Technology Education*, 26(1), 35-46. [\[Link\]](#)
 5. Shindin, S., Parumasur, N., & **Lukumon, G.** (2022). Numerical analysis of Fourier pseudospectral methods for the Klein–Gordon equation with smooth potentials: Fourier pseudospectral methods for Klein–Gordon equation. *Afrika Matematika*, 33(3), 85. [\[Link\]](#)
 6. Maharaj, A., & **Lukumon, G.** (2021). Commerce students' ability to correctly apply integration rules. *Technology Report of Kansai University*, 63(2), 7083–7105. [\[Link\]](#)
 7. Jolaoso, L. O., **Lukumon, G. A.**, & Aphane, M. (2021). Convergence theorem for system of pseudomonotone equilibrium and split common fixed point problems in Hilbert spaces. *Bollettino dell'Unione Matematica Italiana*, 14, 403-428. [\[Link\]](#)
 8. **Lukumon, G. A.** (2018). *Numerical solution of the Klein-Gordon equation in an unbounded domain* (Masters dissertation). [\[Link\]](#)

WORKING PAPERS (drafts available)

9. **Lukumon, G.**, Picat, L., Chemla, E., & Strickland B. Myside Bias in Scientific Decision-Making: Exploring Speed-Accuracy Trade-Offs and Implications for Biases and Scientific Communities. (under review in *Cognitive Science*).
10. **Lukumon, G.**, Cusimano, C., & Strickland B. Optimism and attribution of dis(loyalty) in Group. (in preparation).
11. **Lukumon, G.**, Byrd N., & Strickland B. Adversarial collaboration among fact-checkers: bipartisanism outweighs partisanship in preferences and trust towards news. (in preparation).
12. **Lukumon, G.**, & Ayegbusi R. Myside bias and militarization of election. (in preparation).

PEER-REVIEWED CONFERENCE PROCEEDINGS

13. **Lukumon, G.** From fun to phobia: enhancing mathematics engagements with the AI-powered tools. *Proceedings of 2024 UI National Mathematics Center annual conference*. [\[Link\]](#)
14. **Lukumon, G.**, Cusimano, C., & Strickland B (2023). Optimism and attribution of dis(loyalty) in Group. *Proc. of the 2023 SJDM annual conference*. [\[Link\]](#)
15. **Lukumon, G.**; Boon Falleur; & Strickland B. (2022). Expressive responding, myside bias and moral conviction. *Proceedings of 2022 UM6P JDD Conference, UM6P*. [\[Link\]](#)
16. **Lukumon, G.**; & Klein, M. (2021). Idea filtering with Bag of Lemons. *Proceedings of 2021 UM6P JDD Conference, UM6P*. [\[Link\]](#)

17. **Lukumon, G.,** Shindin, S., & Parumasur N. (2019). On Lax Pairs analysis of the Sine-Gordon equation. *Proc of CAES, UKZN Postgraduate Research and Innovation Symposium*. [\[Link\]](#)
18. **Lukumon, G.,** Shindin, S., & Parumasur N. (2018). On the numerical Solution of the Klein-Gordon equation in an Unbounded Domain. *Proc. of CAES, UKZN Postgraduate Research and Innovation Symposium*. [\[Link\]](#)

HONORS & AWARDS

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| 2023 | UKZN 2023 Inspiring Impact Challenge Social Enterprise Academy Bootcamp |
| 2023 | Jane Beattie Memorial Scholarship (<i>Financial support to attend SJDM 2023 conference in San Francisco. Awards postpone to 2024 for visa issue</i>). |
| 2023 | Financial support to attend 2023 COSMOS in Konstanz. |
| 2020-2024 | University Mohammed VI Polytechnic Doctoral Fellowship. |
| 2020 | NRF South Africa Doctoral Scholarship - UKZN (declined) |
| 2019 | University of KwaZulu-Natal, South Africa Cum Laude Award. |
| 2019 | AIMS financial support to attend "Future of Science" Conference, Kigali. |
| 2017-2018 | University of KwaZulu-Natal, South Africa M.Sc. Tuition fee Remission (<i>Scholarship towards full cost</i>). |
| 2017 | King Fahd University of Petroleum and Minerals, Saudi Arabia <i>Fully funded M.Sc. Scholarship (declined to start M.Sc at UKZN, South Africa)</i> . |
| 2018 | Institut Henri Poincaré (IHP), Paris, France (<i>financial Support to attend a Trimester School on "Mathematics of Imaging" in Paris, France (\$3000 Euro)</i>). |
| 2018 | Institute of Mathematics and Physics (IMSP), Dangbo Benin (financial Support to attend CIMPA Research School on "Dynamical System" at IMSP Dangbo Benin Republic (\$54,500 CFA Frac). |
| 2018 | CIMPA financial Support to attend CIMPA Research School on "Dynamical System" at IMSP Dangbo Benin Republic (\$600 Euro). |
| 2018 | CIMPA financial Support to attend CIMPA Research School on "Topics in Ring" at AIMS Centre, South Africa. |
| 2017 | CIMPA financial support to attend CIMPA Research School on "Combinatorics and Computational Algebraic Geometry" at the University of Ibadan, Nigeria. |
| 2008 | Best Student in Physics (SS2, School of Science, Okeho, Nigeria) |

TEACHING

- 2022 - Weekly Thursday reading and explanation of the book "KA Stroud Engineering Mathematics with Dexter Booth" in Yoruba on Facebook.
- 2023 - Weekly explanation of High School mathematics in Yoruba on Ekiti FM, KASMON FM, Iseyin and EKTU Startimes 113.
- 2023 Introduction to Basic Computer and Programming (UM6P).
- 2023 Data science - intermediate (DEC, ENS).
- 2020-2021 Computer Science Methods for Collective Intelligence (1 and 2) (SCI, UM6P).
- 2022 Experimental methods 2 (SCI, UM6P).
- 2015-2020 Mathematics for Natural Sciences, Introduction to Calculus, Calculus and Linear Algebra, Further Topics in Mathematics, Advanced Differential Equations, Optimization and optimal control theory, Abstract Algebra, Functional Analysis etc. (UKZN, EACOED/EKSU, FCE Osiele).

PROFESSIONAL SERVICE

- 2021 - Founder & Instructor, Math with Lukgaf (Online free math classes in Yoruba) [[Link](#)].
- 2021 Supervisor, UM6P SAS 1st Hackathon.
- 2016 - Founder, Hotspot International Scholarship Forum (HISF) [[Google drive](#)].
- 2019 Eskom Expo Mentor, The Umkhumbane Schools Project- Young Scientists Mentoring Programme.
- 2018 – 2019 Student's Director, International Students Association (ISA), UKZN Campus, South Africa.
- 2017 Student's Prefectorial Committee, Emmanuel Alayande College of Education Model High School, Oyo, Nigeria.

INVITED TALKS

- Lukumon, G.** (2024) "Redefining the course", *Annual Academic Symposium, TLEC Apomu*.
- Lukumon, G.** (2024) "Scholarship opportunities in Africa, Asia and the Middle East", *Greenline Nurture Initiative*.
- Lukumon, G.**, Byrd, N., & Strickland B. (2024) "Adversarial collaboration of fact-checkers", *Weekly SCI Lab, UM6P*.
- Lukumon, G.** (2023) "Leveraging AI tools in scholarship application". *HISF weekly webinar*.

Lukumon, G., Cusimano, C., & Strickland B. (2023) “Bias in Organization: Be biased or be punished”, *Weekly SCI Lab, UM6P.*

Lukumon, G., Cusimano, C., & Strickland B. (2023) “Bias in Organization: Be biased or be punished”, *Presentation of my projects and experimental designs to Yoruba audience.*

Lukumon, G., “Boon Falleur; & Strickland B. (2022). Expressive responding, myside bias and moral conviction”. *Weekly SCI Lab, UM6P.*

Lukumon, G., & Klein, M. (2021). “Crowd-based idea filtering with BOL”. *Weekly SCI Lab, UM6P.*

CONFERENCE PRESENTATIONS

Lukumon, G (2024). From Phobia to fun: Investigating the impact of AI-powered tools on the students’ engagement. *Talk presented at the 2024 NMC Conference.*

Lukumon, G; Boon Falleur; & Strickland B. (2022). Expressive responding, myside bias and moral conviction. *Talk presented at the 2022 UM6P JDD Conference.*

Lukumon, G; Boon Falleur; & Strickland B. (2021). Idea filtering with Bag of Lemons. *Talk presented at the 2021 UM6P JDD Conference.*

Lukumon, G., Shindin, S., & Parumasur N (2019). Fourier-type Pseudo-spectral scheme for the nonlinear Klein-Gordon. *Talk presented International Symmetries Conference, Sani Pass.*

Lukumon, G., Shindin, S., & Parumasur N (2019). On Lax Pairs analysis of the Sine-Gordon equation. *Talk presented at CAES, UKZN Postgraduate Research and Innovation Symposium.*

Lukumon, G., Shindin, S., & Parumasur N (2018). Numerical solution of the Klein-Gordon equation in an unbounded domain. *Talk presented at CAES, UKZN Postgraduate Research and Innovation Symposium.*

MEMBERSHIP OF PROFESSIONAL BODY

SJDM, Society of Judgement Decision Making.

TRCN, Teacher Registration Council of Nigeria.

NMC, National Mathematical Centre.

SAMS, South African Mathematics Society.
