

Adria Nirere (Ph.D)

## Adria Nirere | Postdoctoral Researcher

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### EDUCATION

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**Jiangsu University**

*Ph.D. program in control science and engineering*

, Jiangsu, China

,7/2018-6/2024

**Karunya University**

*M.Sc. in Networking Technology*

, Tamil Nadu, India

09/2014-06/2017

**Periyar University**

*B.Sc. in Computer Science*

, Tamil Nadu, India

09/2011-06/2014

### Research interests

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- ✓ Agricultural electrification and automation
- ✓ Intelligent and information processing
- ✓ *AI-driven data analysis*
- ✓ Hyperspectral Imaging & Intelligent Sensing Engineering
- ✓ Control science and engineering

### PUBLICATIONS

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#### Summary:

**12 peer-reviewed papers** in Science Citation Index (SCI), **198.4 Research Interest Score**, **478 Citations**, **10 h-index**, [https://scholar.google.com/citations?user=QVnL1\\_cAAAAJ&hl=en](https://scholar.google.com/citations?user=QVnL1_cAAAAJ&hl=en).

#### *Published articles as first author during PhD study*

1. **Nirere, Adria**, Jun Sun, Vincent Akolbire Atindana, Ahmad Hussain, Xin Zhou, and Kunshan Yao. A comparative analysis of hybrid SVM and LS-SVM classification algorithms to identify dried wolfberry fruits quality based on hyperspectral imaging technology[J]. Journal of Food Processing and Preservation, **2022**, 46(3): e16320
2. **Nirere, Adria**, Jun Sun, Rakhwe Kama, Vincent Akolbire Atindana, Felix Didier Nikubwimana, Keza Dominique Dusabe, and Yuhao Zhong. Nondestructive detection of adulterated wolfberry (*Lycium Chinense*) fruits based on hyperspectral imaging technology[J]. Journal of Food Process Engineering, **2023**, 46(4): e14293.
3. **Nirere, Adria**, Jun Sun, Yuhao Zhong. A Rapid Non-destructive Detection Method for Wolfberry Moisture Grade Using Hyperspectral Imaging Technology[J]. Journal of Nondestructive Evaluation, **2023**, 42(2): 45.
4. Jun Sun, **Adria Nirere**, Keza Dominique Dusabe, Zhong Yuhao, Guverinoma Adrien. Rapid and Nondestructive Watermelon (*Citrullus lanatus*) Seed Viability Detection Based on Visible Near-Infrared Hyperspectral Imaging Technology and Machine Learning Algorithms[J]. Journal of Food Science, **2024**: (DOI: 10.1111/1750-3841.17151).
5. **Nirere, Adria**, Jun Sun, Xin Zhou, Kunshan Yao, Ningqiu Tang, and Ahmad Hussain. Identification of living and non-living watermelon seeds based on Hyperspectral Imaging Technology[C]. **2021** 33rd Chinese Control and Decision Conference (CCDC), 2021: 5948–5953.

#### *Articles published as a co-author with research group members*

1. Yao, Kunshan, Jun Sun\*, Xin Zhou, **Adria Nirere**, Yan Tian, and Xiaohong Wu. Nondestructive detection for egg freshness grade based on hyperspectral imaging technology[J]. Journal of Food Process Engineering, 2020, 43(7): e13422.

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- Zhang, Lin, Jun Sun\*, Xin Zhou, **Adria Nirere**, Xiaohong Wu, and Ruimin Dai. Classification detection of saccharin jujube based on hyperspectral imaging technology[J]. Journal of Food Processing and Preservation, 2020, 44(8): e14591
- Cao, Yan, Haoran Li, Jun Sun\*, Xin Zhou, Kunshan Yao, and **Adria Nirere**. Nondestructive determination of the total mold colony count in green tea by hyperspectral imaging technology[J]. Journal of Food Process Engineering, 2020, 43(12): e13570.
- Tang, Ningqiu, Jun Sun\*, Kunshan Yao, Xin Zhou, Yan Tian, Yan Cao, and **Adria Nirere**. Identification of Lycium barbarum varieties based on hyperspectral imaging technique and competitive adaptive reweighted sampling-whale optimization algorithm-support vector machine[J]. Journal of Food Process Engineering, 2021, 44(1): e13603.
- Ahmad, Hussain, Jun Sun\*, **Adria Nirere**, Naila Shaheen, Xin Zhou, and Kunshan Yao. Classification of tea varieties based on fluorescence hyperspectral image technology and ABC-SVM algorithm[J]. Journal of Food Processing and Preservation, 2021, 45(3): e15241.
- Sun, Jun\*, Lin Zhang, Xin Zhou, Kunshan Yao, Yan Tian, and **Adria Nirere**. A method of information fusion for identification of rice seed varieties based on hyperspectral imaging technology[J]. Journal of Food Process Engineering, 2021, 44(9): e13797.
- Atindana V A, Xu X\*, Huan L, **Adria Nirere**, Andrews Nanzie Nyedeb, James Kwasi Quaisie, Nkrumah Jacob Kwaku & Samuel Passim Assam . Experimental design and optimization of pneumatic low-frequency driver seat for off-road vehicles: quasi-zero negative stiffness and gray wolf optimization algorithm[J]. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2023, 45(9): 502.

**Other research achievements**

- I won an academic poster design presentation contest at the 2023 Jiangsu University Simulated International Academic Conference Communication Competition for Graduate students.

**EXPERIENCE**

**Lecturer**

INES-Ruhengeri, Department of computer science

13/01/2025—Present

Period	Course/Position	Institution
08.01.2025-till now	Lecturer in the Department of Computer Science	NES-Ruhengeri
March 2022- August 2022	China -Africa friendship “Agricultural equipment design and improvement program.”	Jiangsu Vocational College of Agriculture and Forestry & Jiangsu Modern Agricultural Equipment Engineering Center, China
June/2020- 2023	Building manager, floor representative, and Class monitor.	C-8 building, Jiangsu University, Zhenjiang.
2018-2024	Captain of Women's football Team (Ravens)	ISSA (International Students Sport Association), Jiangsu, China.
March– September 2018	-Teaching (Instructor) -Sports Education Committee	Noorul Islam University/Kumaracoil/Tamilnadu/India

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2015-2018	-Post Graduate Teacher (PGT) . Education board.  -Teacher  -Process Associate  . Call and respond to the customer.  - PGT (Postgraduate Teacher) and FootballTrainer	-Jazz Public School, Melur, Madurai district, Tamilnadu, India  -Bluez Infomatic Solution LTD, Coimbatore, Tamil Nadu, India
2014-2016	Captain of the ladies' University Team.Physical Education Sports Training (FootballDepartment)	Karunya University/Tamilnadu/India
2011-2014	Co-organizer of women's Football events	PERIYAR UNIVERSITY Salem, Tamilnadu/India.

## AWARDS AND CERTIFICATES

From to	Awards	Club
16.02.2026	Certificate of recognition for a resource person for an expert talk in <b>IIoT- DTSFEI'26 Conference</b>	ADHIYAMAN ARTS &SCIENCE COLLEGE FOR WOMEN India Tamilnadu
July 2025	Certificate of participation: Fake News Detection Using Optimized deep learning	Academia
22 <sup>nd</sup> July 2025	Certificate of participation in Driving Digital Transformation in Higher Education: AI-Powered campus management, ACADEMIA,	SEROSOFT
14 <sup>th</sup> -18 <sup>th</sup> July, 2025	Certificate of participation in Scientific writing for early career scientists	RUFORUM
December 2020- November 2023	Certificate of Honor, Awarded for Excellent Overseas Apartment Manager.	Overseas Education College
May 2023	Certificate of Academic Poster Design Contest of 2023, Jiangsu University Simulated International Academic Conference, and communication competition for graduate students.	Graduate School and School of Foreign Languages,Jiangsu University.
11. December .2022	Duolingo Certificate	Duolingo English test
August 2022	Certificate of course completion in Agriculture Mechanization	Jiangsu Vocational College of Agriculture and Forestry, China
20/04/2021	Honorary credential for contribution in collaboration with Mou Jiangsu University Belt and Road Initiative	Jiangsu University, Zhenjiang, China
11/01/2021	Certificate of Appreciation as Teaching Assistant in Graduate School 2020/2021	Graduate School of Jiangsu University, China
19.12.2020	-Certification of Appreciation JSU's most talented.	Public debt. Jiangsu University, Communist Youth League; Jiangsu University, OEC (Overseas Education College); Jiangsu University, China.



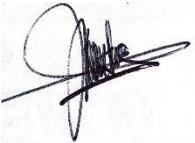
*Adria Nirere (Ph.D)*

- Photography and Videography, Coaching and playing football, and basketball, Teaching, Reading, Running, Volunteering (Social Activities, charity), and Research to discover and update my knowledge to get me updated.

No	names	Contacts	Position
1.	Dr. Egide Abahuje	1. +1 (857) 361-2292 2. E-mail: <a href="mailto:egide@med.umich.edu">egide@med.umich.edu</a>	Assistant Professor, Department of Cardiac Surgery, University of Michigan
2.	Dr. Jamila AKter Tuly	1.+8618652831261 2.E-mail: <a href="mailto:339759@gzhu.edu.cn">339759@gzhu.edu.cn</a>	Assistant Professor, Department of Life Science, Guangzhou University
3	GASANA VEDASTE	1. Phone: +250788543060 2. E-mail: <a href="mailto:vedsan01@gmail.com">vedsan01@gmail.com</a>	Director of Quality Assurance, MIPC
4	Prof. Xin Chen	1. Phone: +86-511-88797766 2. E-mail: <a href="mailto:sophie@ujs.edu.cn">sophie@ujs.edu.cn</a>	-Chair of the graduate English teaching department, School of Foreign Languages, Jiangsu University
5	Secretary Chen Guangjing	1. WeChat: sizuka0310 2. E-mail: <a href="mailto:chen_gj@ujs.edu.cn">chen_gj@ujs.edu.cn</a>	- Secretary of the School of Electrical and Information Engineering, Jiangsu University.
6	Dr. Enock NYISINGIZE	1. Phone: +250788877997 2. E-mail: <a href="mailto:enyisingize@gmail.com">enyisingize@gmail.com</a>	Deputy Vice Chancellor for Academic Affairs, Research, Consultancy, and Innovation, East African University Rwanda (EAUR)
7	Prof. Hui Jiang	1. Phone: +8615050858646 2. E-mail: <a href="mailto:h.v.jiang@ujs.edu.cn">h.v.jiang@ujs.edu.cn</a>	- Professor at the School of Electrical and Information Engineering, Jiangsu University
8	Prof. Sun Jun	1. Phone: +8613775544650 2. E-mail: <a href="mailto:sun2000jun@sina.com">sun2000jun@sina.com</a>	_Professor and my supervisor at The School of Electrical and Information Engineering, Jiangsu University
9	Mr Donatien Bajyanama	1. Phone: +250788354494 2. E-mail: <a href="mailto:bajyadona@gmail.com">bajyadona@gmail.com</a>	Health Management Expert,
10	Fr. Dr. Baribeshya Jean Bosco	1. Phone: +250707652362 2. E-mail: <a href="mailto:vc.ines@ines.ac.rw">vc.ines@ines.ac.rw</a>	Vice-Chancellor of INES-Ruhengeri

I confirm that the above information is correct to the best of my knowledge.

NIRERE ADRIA



**KIGALI, March 07, 2026**