Simeon Oluwafunmilore Adebola

CONTACT INFORMATION

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Tel: +1 (629) 800-4663
Address: Department of Electrical Engineering and Computer Science, University of California, Berkeley.
Homepage: https://simeonoa.github.io
Google Scholar: https://scholar.google.com/citations?user=rbTsDkAAAAAJ&hl=en

RESEARCH INTERESTS

Agricultural robotics; Cloud robotics; Manipulation of deformable linear objects; Deep learning in computer vision; Social robotics; Low-cost robotics for STEM education; Strategic foresight for STI policy; Maker Movement

EDUCATION

University of California, Berkeley *Aug. 2021 – Present*

- Ph.D. Candidate in Electrical Engineering and Computer Science
- Advisor: Ken Goldberg
- Supported by the Bakar Bioenginuity Impact Grant

University of Southern Denmark, Denmark *Summer 2023*

- Study Abroad: International Elite Summer School in Robotics and Entrepreneurship
- Fully funded by a scholarship from the Innovation Center Denmark (ICDK)

Middle Tennessee State University *Dec. 2019*

- M.S. in Engineering Technology & Industrial Studies GPA: 4.0/4.0
- Advisor: Lei Miao
- Thesis: *A Human Following Robot for Fall Detection*

Obafemi Awolowo University, Nigeria *Mar. 2013*

- B.Sc. Mechanical Engineering
- Thesis: *Design of an Improvised Robot Arm System*

PREPRINTS & WORKING PAPERS

[1] **OXE++: Scaling Robot Augmentation for Cross-Embodiment Policy Learning**
Guanhua Ji*, Harsha Polavaram*, Lawrence Yunliang Chen*, Sandeep Bajamahal, Zehan Ma, **Simeon Adebola**, Chenfeng Xu, Ken Goldberg.
Under Review

PUBLICATIONS (JOURNALS/ CONFERENCES)

[16] **How children blend feedback in a mixed-reality environment for collective embodied learning**
Sarah Jaewon Lee, Xintian Tu, **Simeon Adebola**, D. Teo. Keifert, Noel Enyedy, Joshua Danish.
International Journal of Computer-Supported Collaborative Learning, Oct. 2025.
Journal Paper.

[15] **Botany-Bot: Digital Twin Monitoring of Occluded and Underleaf Plant Structures with Gaussian Splats.**
Simeon Adebola, Chung Min Kim, Justin Kerr, Shuangyu Xie,
Prithvi Akella, Jose Luis Susa Rincon, Eugen Solowjow, and Ken Goldberg.
IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), 2025.

[14] **GrowSplat: Constructing Temporal Digital Twins of Plants with Gaussian Splats.**
Simeon Adebola, Shuangyu Xie, Chung Min Kim, Justin Kerr, Bart M. van Marrewijk, Mieke van Vlaardingen, Tim van Daalen, E.N. van Loo, Jose Luis Susa Rincon, Eugen Solowjow, Rick van de Zedde, Ken Goldberg.
IEEE 21st International Conference on Automation Science and Engineering (CASE), 2025.

[13] **Automating Deformable Gasket Assembly**
Simeon Adebola*, Tara Sadjadpour*, Karim El-Refai*, Will Panitch, Zehan Ma, Roy Lin, Tianshuang Qiu, Shreya Ganti, Charlotte Le, Jaimyn Drake, and Ken Goldberg.
IEEE 20th International Conference on Automation Science and Engineering (CASE), 2024.

[12] **Open X-Embodiment: Robotic Learning Datasets and RT-X Models : Open X-Embodiment Collaboration**
Abby O'Neill, Abdul Rehman, Abhiram Maddukuri, Abhishek Gupta, Abhishek Padalkar, Abraham Lee, Acorn Pooley, Agrim Gupta, Ajay Mandlekar, Ajinkya Jain, Albert Tung, Alex Bewley, Alex Herzog, Alex Irpan, Alexander Khazatsky, Anant Rai, Anchit Gupta, Andrew Wang, Anikait Singh, Animesh Garg, Aniruddha Kembhavi, Annie Xie, Anthony Brohan, Antonin Ran, Archit Sharma, Arefeh Yavary, Arhan Jain, Ashwin Balakrishna, Ayzaan Wahid, Ben Burgess-Limerick, Beomjoon Kim, Bernhard Sch□olkopf, Blake Wulfe, Brian Ichter, Cewu Lu, Charles Xu, Charlotte Le, Chelsea Finn, Chen Wang, Chenfeng Xu, Cheng Chi, Chenguang Huang, Christine Chan, Christopher Agia, Chuer Pan, Chuyuan Fu, Coline Devin, Danfei Xu, Daniel Morton, Danny Driess, Daphne Chen, Deepak Pathak, Dhruv Shah, Dieter Buchler, Dinesh Jayaraman, Dmitry Kalashnikov, Dorsa Sadigh, Edward Johns, Ethan Foster, Fangchen Liu, Federico Ceola, Fei Xia, Feiyu Zhao, Freek Stulp, Gaoyue Zhou, Gaurav S. Sukhatme, Gautam Salhotra, Ge Yan, Gilbert Feng, Giulio Schiavi, Glen Berseth, Gregory Kahn, Guanzhi Wang, Hao Su, Hao-Shu Fang, Haochen Shi, Henghui Bao, Heni Ben Amor, Henrik I Christensen, Hiroki Furuta, Homer Walke, Hongjie Fang, Huy Ha, Igor Mordatch, Ilija Radosavovic, Isabel Leal, Jacky Liang, Jad Abou-Chakra, Jaehyung Kim, Jaimyn Drake, Jan Peters, Jan Schneider, Jasmine Hsu, Jeannette Bohg, Jeffrey Bingham, Jeffrey Wu, Jensen Gao, Jiaheng Hu, Jiajun Wu, Jialin Wu, Jiankai Sun, Jianlan Luo, Jiayuan Gu, Jie Tan, Jihoon Oh, Jimmy Wu, Jingpei Lu, Jingyun Yang, Jitendra Malik, João Silvério, Joey Hejna, Jonathan Booher, Jonathan Tompson, Jonathan Yang, Jordi Salvador, Joseph J. Lim, Junhyek Han, Kaiyuan Wang, Kanishka Rao, Karl Pertsch, Karol Hausman, Keegan Go, Keerthana Gopalakrishnan, Ken Goldberg, Kendra Byrne, Kenneth Oslund, Kento Kawaharazuka, Kevin Black, Kevin Lin, Kevin Zhang, Kiana Ehsani, Kiran Lekkala, Kirsty Ellis, Krishan Rana, Krishnan Srinivasan, Kuan Fang, Kunal Pratap Singh, Kuo-Hao Zeng, Kyle Hatch, Kyle Hsu, Laurent Itti, Lawrence Yunliang Chen, Lerrel Pinto, Li Fei-Fei, Liam Tan, Linxi

"Jim" Fan, Lionel Ott, Lisa Lee, Luca Weihs, Magnum Chen, Marion Lepert, Marius Memmel, Masayoshi Tomizuka, Masha Itkina, Mateo Guaman Castro, Max Spero, Maximilian Du, Michael Ahn, Michael C. Yip, Mingtong Zhang, Mingyu Ding, Minho Heo, Mohan Kumar Srirama, Mohit Sharma, Moo Jin Kim, Naoaki Kanazawa, Nicklas Hansen, Nicolas Heess, Nikhil J Joshi, Niko Suenderhauf, Ning Liu, Norman Di Palo, Nur Muhammad Mahi Shaullah, Oier Mees, Oliver Kroemer, Osbert Bastani, Pannag R Sanketi, Patrick "Tree" Miller, Patrick Yin, Paul Wohlhart, Peng Xu, Peter David Fagan, Peter Mitrano, Pierre Sermanet, Pieter Abbeel, Priya Sundaresan, Qiuyu Chen, Quan Vuong, Rafael Rafailov, Ran Tian, Ria Doshi, Roberto Mart'in-Mart'in, Rohan Baijal, Rosario Scalise, Rose Hendrix, Roy Lin, Runjia Qian, Ruohan Zhang, Russell Mendonca, Rutav Shah, Ryan Hoque, Ryan Julian, Samuel Bustamante, Sean Kirmani, Sergey Levine, Shan Lin, Sherry Moore, Shikhar Bahl, Shivin Dass, Shubham Sonawani, Shuran Song, Sichun Xu, Siddhant Haldar, Siddharth Karamcheti, **Simeon Adebola**, Simon Guist, Soroush Nasiriany, Stefan Schaal, Stefan Welker, Stephen Tian, Subramanian Ramamoorthy, Sudeep Dasari, Suneel Belkhale, Sungjae Park, Suraj Nair, Suvir Mirchandani, Takayuki Osa, Tanmay Gupta, Tatsuya Harada, Tatsuya Matsushima, Ted Xiao, Thomas Kollar, Tianhe Yu, Tianli Ding, Todor Davchev, Tony Z. Zhao, Travis Armstrong, Trevor Darrell, Trinity Chung, Vidhi Jain, Vincent Vanhoucke, Wei Zhan, Wenxuan Zhou, Wolfram Burgard, Xi Chen, Xiaolong Wang, Xinghao Zhu, Xinyang Geng, Xiyuan Liu, Xu Liangwei, Xuanlin Li, Yao Lu, Yecheng Jason Ma, Yejin Kim, Yevgen Chebotar, Yifan Zhou, Yifeng Zhu, Yilin Wu, Ying Xu, Yixuan Wang, Yonatan Bisk, Yoonyoung Cho, Youngwoon Lee, Yuchen Cui, Yue Cao, Yueh-Hua Wu, Yujin Tang, Yuke Zhu, Yunchu Zhang, Yunfan Jiang, Yunshuang Li, Yunzhu Li, Yusuke Iwasawa, Yutaka Matsuo, Zehan Ma, Zhuo Xu, Zichen Je Cui, Zichen Zhang, Zipeng Lin
IEEE International Conference on Robotics and Automation (ICRA), 2024. **Oral Presentation. Best Paper Award, Best Student Paper Award Finalist, Best Manipulation Paper Award Finalist.**

[11] **Automated Pruning and Irrigation of Polyculture Plants**
Simeon Adebola, Mark Presten, Rishi Parikh, Shrey Aeron, Sandeep Mukherjee, Satvik Sharma, Mark Theis, Walter Teitelbaum, Eugen Solowjow, and Ken Goldberg.
IEEE Transactions on Automation Science and Engineering, 2024.
Journal Paper.

[10] **FogROS2-SGC: A ROS2 Cloud Robotics Platform for Secure Global Connectivity**
Kaiyuan Chen, Ryan Hoque, Karthik Dharmarajan, Edith LLontop, **Simeon Adebola**, Jeffrey Ichnowski, John Kubiatowicz, and Ken Goldberg
IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), 2023.

[9] **PolyPoD: An Algorithm for Polyculture Seed Placement**
Varun Kamat, Shrey Aeron, Anrui Gu, Harshika Jalan, **Simeon Adebola**, Ken Goldberg
IEEE 19th International Conference on Automation Science and Engineering (CASE), 2023.

[8] **Can Machines Garden? Systematically Comparing the AlphaGarden vs. Professional Horticulturalists**
Simeon Adebola∗, Rishi Parikh∗, Mark Presten, Satvik Sharma, Shrey Aeron, Ananth Rao, Sandeep Mukherjee, Tomson Qu, Christina Wistrom, Eugen Solowjow, Ken Goldberg
IEEE International Conference on Robotics and Automation (ICRA), 2023. **Oral Presentation. Outstanding Paper (Automation) Award Finalist**.

[7] **FogROS2: An Adaptive Platform for Cloud and Fog Robotics Using ROS 2**
Jeffrey Ichnowski∗, Kaiyuan Chen∗, Karthik Dharmarajan, **Simeon Adebola**, Michael Danielczuk, Víctor Mayoral-Vilches, Nikhil Jha, Hugo Zhan, Edith LLontop, Derek Xu, Camilo Buscaron, John Kubiatowicz, Ion Stoica, Joseph Gonzalez, and Ken Goldberg
IEEE International Conference on Robotics and Automation (ICRA), 2023.

[6] **Automated Pruning of Polyculture Plants**
Mark Presten, Rishi Parikh, Shrey Aeron, Sandeep Mukherjee, **Simeon Adebola**, Satvik Sharma, Mark Theis, Walter Teitelbaum, and Ken Goldberg
IEEE 18th International Conference on Automation Science and Engineering (CASE), 2022. **Best Conference Paper Award.**

[5] **"We Made Liquid!": How Children Blend Feedback in a Mixed-Reality Environment for Collective Embodied Learning**
Sarah Jaewon Lee, Xintian Tu, **Simeon Adebola**, Noel Enyedy, Joshua Danish
15th International Conference on Computer-Supported Collaborative Learning (CSCL), 2022.

[4] **Assisting Polyculture Farming in Africa**
Simeon Adebola, and Ken Goldberg
2021 IEEE AFRICON, 2021.

[3] **Democratising Technology: The Confluence of Makers and Grassroot Innovators**
Anna Waldman-Brown, Juliet Wanyiri, **Simeon Oluwafunmilore Adebola**, Tim Chege, Marian Muthui
3rd International Conference on Creativity and Innovations at Grassroots (ICCIG), Indian Institute of Management, 2015.

[2] **Design and Implementation of a Locally-Sourced Robotic Arm**
S.O. Adebola, O.A. Odejobi, O.A. Koya
2013 IEEE AFRICON, 2013.

[1] **Integrating Humanities Approaches to Shaping African Technological Development: The Case for an Indigenous Futures Component in the Science, Technology and Innovation Agenda in Africa**
Oluwafunmilore Adebola, Simon Adebola
African Technology Policy Studies (ATPS) Network Annual Conference and Workshop, 2012.

WORKSHOP PAPERS (NON-ARCHIVAL)

[6] **GrowSplat: Constructing Temporal Digital Twins of Plants with Gaussian Splats**
Simeon Adebola, Shuangyu Xie, Chung Min Kim, Justin Kerr, Bart M. van Marrewijk, Mieke van Vlaardingen, Tim van Daalen, E.N. van Loo, Jose Luis Susa Rincon, Eugen Solowjow, Rick van de Zedde, Ken Goldberg.
Novel Approaches for Precision Agriculture and Forestry with Autonomous Robots Workshop, IEEE ICRA, 2025
Best Paper Finalist

[5] **A "Botany-Bot" for Digital Twin Monitoring of Occluded and Underleaf Plant Structures**
Simeon Adebola, Chung Min Kim, Justin Kerr, Shuangyu Xie,
Prithvi Akella, Jose Luis Susa Rincon, Eugen Solowjow, and Ken Goldberg
5th Workshop: Reflections on Representations and Manipulating Deformable Objects, IEEE ICRA, 2025

[4] **Tree Genus Classification from GPS-Registered Aerial Imagery**
Sandeep Mukherjee∗, Abigail O'Neill, Tianshuang Qiu, Shrey Aeron, Tomson Qu, **Simeon Adebola**, Sara Beery, Jonathan Huang, Ken Goldberg
11th Fine-grained Visual Categorization (FGVC) Workshop, *CVPR***,** 2024

[3] **Automating Deformable Gasket Assembly**
Simeon Adebola*, Tara Sadjadpour*, Karim El-Refai*, Will Panitch, Zehan Ma, Roy Lin, Tianshuang Qiu, Shreya Ganti, Charlotte Le, Jaimyn Drake, and Ken Goldberg.
4th Workshop on Representing and Manipulating Deformable Objects, IEEE ICRA, 2024

[2] **AlphaGarden-NeRF: 3D Representation for Plant Growth Monitoring**
Simeon Adebola*, Adam Rashid*, Zehan Ma, Roy Lin, Ayah Ahmad, Ken Goldberg, Eugen Solowjow
Workshop on Robotics in Agriculture, IEEE IROS, 2023

[1] **FogROS2-SGC: A Multi-Robot ROS2 Platform for Secure Global Connectivity**
Kaiyuan Chen, Ryan Hoque, Karthik Dharmarajan, Edith LLontop, **Simeon Adebola**, Jeffrey Ichnowski, John Kubiatowicz, and Ken Goldberg
ICRA2023 Workshop on Communication Challenges in Multi-Robot Systems: Perception, Coordination, and Learning, IEEE ICRA, 2023

THESES

[2] **Simeon O. Adebola**, "A Human Following Robot for Fall Detection," M.S., Middle Tennessee State University, Department of Engineering Technology, 2019

[1] **Oluwafunmilore Adebola**, "Design of An Improvised Robot Arm System," B.Sc., Obafemi Awolowo University, Department of Mechanical Engineering, 2013

OTHERS

[2] **Current Trends in the African Maker Movement** (Poster)
Oluwafunmilore Adebola, Anna Waldman-Brown, Bilal Ghalib, and Juliet Wanyiri
10th Fab Lab Conference (FAB10), Barcelona, 2014.

[1] **Climate Change and a Case for Renewable Energy Options**
Oluwafunmilore Adebola
The Nigerian Guardian, Nigeria, Jul. 01, 2013

WORK EXPERIENCE

Vanderbilt University Nashville, TN
Technical Support Specialist (Practical Training) *Sept. 2019 – Aug. 2021*

- Department of Teaching & Learning; Peabody College of Education & Human Development
- Set up a new research lab space that utilizes a computer vision-based software (OpenPTrack) and consists of imagers, compute modules, cameras, and a projector amongst other engineering and computing components.
- Supporting the use of OpenPTrack in two NSF-funded grants focused on children learning through play.
- Testing and implementing new software and hardware within the lab space.
- Assisting ongoing and continued collaboration with the Center for Research in Engineering, Media, And Performance (REMAP); University of California, Los Angeles (UCLA).

KBB Consulting, LLC Playa Del Rey, CA
Technical Support *April 2021*

- Assisted remotely with the troubleshooting of the computer vision system to be used for tracking in a deployed project.
- Repaired a problematic computer node and oversaw the network of computers and sensors being used.
- Provided technical support and supervision on calibration of the sensors and debugged the system when issues arose.

KBB Consulting, LLC Playa Del Rey, CA
Technical Support *Feb. 2021*

- Assisted with the integration of the computer vision system to be used for tracking in a project in Nashville.
- Oversaw the network of computers and sensors, calibrated the sensors and debugged the system when it was not working properly.

University of California, Los Angeles (UCLA) Los-Angeles, CA
Graduate Intern *May 2018-August 2018*

- Center for Research in Engineering, Media, And Performance (REMAP)
- Completed/tested containerization (“dockerizing”) OpenPTrack in collaboration with another student from UCLA to facilitate easy deployment onto many nodes and reduce deployment time by 85%.
- Shared / disseminated the new results by updating the wiki, making sure code is in Github, helping to automate docker image creation, etc.
- Participated in the Future of Storytelling Summer Institute (FSSI 2018), which is a 3-week workshop exploring the use of augmented reality (AR) in storytelling and theater.

- Worked on the integration, testing, and documentation of a Face Recognition module, in collaboration with a graduate student from UCLA
- Directed the expansion of a web-based user interface under development to support status monitoring and configuration in collaboration with a student from the University of Padova.

Scientific Preparatory Academy for Cosmic Explorers (SPACE) Douglas, Isle of Man
Virtual Intern *June 2013 – September 2015*

- Researched robotic mining technology that can be deployed on a specific designed mission
- Researched designated planetary bodies and the presence of designated constituents

National Centre for Technology Management Ile-Ife, Nigeria
Intern *October 2010– January 2011*

- Developed a knowledge map of the organization
- Researched an Annotated Bibliography on "Harnessing Indigenous Knowledge for Development in Nigeria."

HONORS & AWARDS

Bakar Bioenginuity Impact Grant 2025-2027
• *Funds late-stage doctoral candidates for two years. Four recipients are chosen yearly.*

Richard S. Muller Fellowship in EECS (UC Berkeley) 2024

Scholarship for the International Elite Summer School in Robotics and Entrepreneurship 2023
• *Funded by the Danish Ministry of Higher Education and Science, Odense Municipality, the Innovation Centre Denmark, the Novo Nordisk Foundation, and private partners.*

UC Berkeley EECS Excellence Award 2021

UC Berkeley BAIR Research Ignition Award 2021

Outstanding Masters Research Award, College of Basic and Applied Sciences, MTSU, Murfreesboro 2019

Project Alloy Grant Awardee Strange Loop 2019 Conference, St Louis 2019

Finalist, Global Fab Awards, The 10th International Fab Lab Conference, Barcelona 2014

1st Place Team Robotics Competition, IEEE Nigerian Section, Abuja 2012

Only African winner "10 Dollar Robot" Design Challenge, African Robotics Network
https://bit.ly/2OQeDEh 2012

TEACHING

University of California, Berkeley **Berkeley, CA**
Graduate Student Instructor **January 2024–May 2024**

- Graduate student Instructor for L&S 25: Beyond the Uncanny Valley: Art, AI and Robotics (Fall 2020) with responsibilities including teaching two sections weekly, and grading of assignments and projects for 51 students.

Middle Tennessee State University **Murfreesboro, TN**
Adjunct Faculty **September 2020–August 2021**

- Instructor for ET 4815: Heating, Ventilation and Air Conditioning (Fall 2020)
- Instructor for ENGR 3540: Introduction to Feedback Control (Spring 2021)

Middle Tennessee State University **Murfreesboro, TN**
Graduate Teaching Assistant **August 2017 – August 2019**

- Received a full-tuition scholarship, helped with weekly labs and grading for 20 students in ENGR 3520: Digital Circuits Fundamentals and for 40+ students in ENGR 3530: Electronics & Instrumentation.
- Team robotics exhibition and training for the first edition of the Tennessee Science, Technology, Engineering, Art, and Math (STEAM) festival.

The National Youth Service Corps **Agenebode, Nigeria**
Youth 'Corper' Deployed to Progress Secondary School **November 2013 – November 2014**

- Taught and imparted knowledge of basic engineering and science subjects to students
- Conducted extensive examination preparation and coaching of graduating students for the Senior Secondary Certificate Examinations (SSCE).
- Responsible for testing and assessment of examination scripts in Physics, Chemistry, and Basic technology.

MENTORING & OUTREACH

Black in Robotics (BiR) Bay Area Chapter June 2022- Present
Leadership

Lawrence Berkeley AI Camp 2024

- Presented Talk "Robotics Gives Us an Exciting View of a Possible Future" showcasing research from AUTOLab, including mine to camp attendees

Girl Scouts Career Exploration Day 2024

- Presented Talk "Robotics Gives Us an Exciting View of a Possible Future" showcasing research from AUTOLab, including mine, to girls in the 4^{th}- 6^{th} grade, organized by the Women in Computer Science Engineers (WiCSE) at UC Berkeley

UC Berkeley Black in BAIR First-Years PhDs August 2021 – August 2022
Facilitator

The Scratch Nigeria Translation Project September 2020-Present
Co-founder

- Project to translate the Scratch Programming Language into Nigerian languages starting with Hausa, Igbo, Yoruba and Pidgin

Intro to Robotics, Black in Robotics Workshop November 2020 - 2021
Teaching Assistant

- Helped and supported workshop participants in building the Hadabot robot and Arduino kits used in 10+ virtual workshops

MIT Policy Hackathon 2020 October 2020
Participant

- Competed on the Planning (Future of Work) Track

Expanding Your Horizon (EYH) Conference, MTSU, Tennessee October 2020
Workshop Leader

- Facilitated a workshop titled 'Introduction to Machine Learning,' partnering with Mathworks to bring their training workshop to the conference

HackMIT 2020 September 2020
Mentor

- Assigned as mentor to two beginner teams and helped with questions from other hackers during the hackathon

ENGR 4580 Senior Design 1 Final Presentation, Middle Tennessee State University, Murfreesboro, Tennessee December 2019
Judge

- Only Graduate Student Judge, together with other staff and faculty, at this presentation of projects by students in the Mechatronics Major

Expanding Your Horizon (EYH) Conference, MTSU, Tennessee September 2019
Workshop Leader

- Led a workshop titled 'Introduction to Machine Learning with Scratch'

STEM Robotics Challenge, Wilson County Fair, Tennessee August 2019
Judge

- Judged, together with other MTSU students and faculty, at the inaugural edition of this robotics challenge that included Robot Roundup and SUMO-Lego® Mindstorms Robot Challenge events

Impact Church Kids' Camp, Tennessee June 2019
Organizer and Facilitator Intro to Robotics

- Organized and facilitated an Intro to Robotics session with about 60 participants with ages ranging from 6-13 years working with Scratch Jr, Scratch, Microbit and Makey Makey,

ACADEMIC SERVICE

Conference
IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS) 2026
Associate Editor

Conference on Robot Learning (CORL) 2022
Associate General Chair

IEEE AFRICON 2021 September 2021
Moderator

- Moderated the 'Uhuru: Industrial Electronics, Control, Autonomous Systems, Instrumentation and Consumer Applications I' Session

Workshop/Tutorial/Forum Organizer

Harnessing Learning, Data, Foundation Models and Open Source: How African Scientists are Advancing Robotics Research (Robotics in Africa Forum) at IEEE International Conference on Robotics and Automation (ICRA) 2025
Robotics in Africa Forum at IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS) 2024
Tutorial on Cloud and Fog Robotics: A Hands-on Tutorial with ROS2 and FogROS2 at IEEE International Conference on Robotics and Automation (ICRA) 2024
Workshop on Lowering Barriers for Robotics Research at the Robotics: Science and Systems (RSS) Conference 2023

Journal Reviewer

Transactions on Machine Learning Research 2025
IEEE Robotics and Automation Letters (RA-L) 2024-2025
IEEE Transactions on Automation Science and Engineering (T-ASE) 2025
IEEE Robotics & Automation Magazine (RAM) 2024

Conference Reviewer

IEEE/CVF Winter Conference on Applications of Computer Vision (WACV) 2024-2025
IEEE International Conference on Robotics and Automation (ICRA) 2022(Delegate), 2023-2026
IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS) 2022-2025
IEEE International Conference on Automation Science and Engineering (CASE) 2022(Delegate), 2023-2025

Application Reviewer

UC Berkeley EECS Graduate Admissions 2023, 2025

Volunteer Manager of Berkeley AI Research Social Media

Manage the Twitter, LinkedIn pages of BAIR account (245K+ Followers) 2024-Present

TECHNICAL SKILLS

Computing: Experience with Python, Computer Vision, Linux Networking, scripting, Robot Operating System (ROS), Figma, Scratch, Scratch Jr. Have worked with Pytorch, Tensorflow, JavaScript, C, LabView, VHDL, PBASIC, Microsoft Visual C#.NET, Fortran.
Libraries: Tensorflow, Pytorch, Numpy, Matplotlib, Pandas, OpenCV
Systems: YOLO, Single-Shot Detector (SSD), MobileNets
Hardware: Nvidia GPU, Raspberry Pi, Arduino, Sensors, Cameras, Depth Sensors.
O/S: Windows XP/Vista/7/8/10, Linux, and Mac

Applications: Proficient with Microsoft Word, Excel, PowerPoint. Experience with Perforce and Unity.
Languages: English (Native), Yoruba (Native), French (Beginner)
Industry: Project Management, Lean Systems, Six Sigma.