

# WISDOM C. AGBOH

School of Computing, University of Leeds, United Kingdom.  
w.c.agboh@leeds.ac.uk

## EDUCATION

---

<b>University of Leeds, UK.</b> PhD, Robotics and AI (Advisors: Prof. Mehmet Dogar & Prof. Anthony Cohn).	2017 - 2021
<b>Middle East Technical University, Turkey.</b> BS Mechanical Engineering, First Class Honours, Top 3%. Minor degree in Mechatronics.	2011 - 2015

## RESEARCH AND INDUSTRY EXPERIENCE

---

<b>University of Leeds</b> EPSRC Doctoral Prize Research Fellow	2021 - 2023
<b>Procter &amp; Gamble (P&amp;G)</b> Internship on machine learning and optimisation applied to business (6 months).	2020 - 2021
<b>Robot Manipulation Lab, University of Leeds.</b> PhD research in physics-based robotic manipulation.	2017 - 2021
<b>AUTOLAB, University of California, Berkeley.</b> PhD research in robotic grasping.	2020 - 2021
<b>Human-Machine Interaction Lab, Sabanci University.</b> Graduate research in haptics and mechanism design.	2015 - 2017
<b>Mechatronics Lab, Middle East Technical University.</b> Undergraduate research in design and control of mobile robots.	2012 - 2015
<b>Vibrations Lab, Middle East Technical University.</b> Undergraduate research in mechanical vibrations and nonlinear optimisation.	2014
<b>Modesis.</b> Start-up research intern in feedback control, mechanical design, and state estimation.	2013

## TEACHING

---

University of Leeds: 6 modules, including Robotics and Algorithms.	2017 - 2020
Sabanci University: 6 modules, including Embedded Systems and Mechanisms.	2015 - 2017

## AWARDS

---

<b>Alan Turing Institute Post-Doctoral Enrichment Award</b> Research fund (2000 GBP).	2022
<b>Engineering Research Council (EPSRC) Doctoral Prize Fellowship</b> A prestigious 2-year research fellowship, University of Leeds, UK.	2021 - 2023
<b>EPS Research Mobility Fund</b> Research visit fund (1330 GBP), University of Leeds, UK.	2020
<b>Postgraduate Researcher of the Year</b> School of Computing, University of Leeds, UK.	2019

<b>Full Travel Grant — 8<sup>th</sup> Parallel-in-Time Conference</b> Travel fund (1500 EUR), Julich Supercomputing Centre, Germany.	2019
<b>EPSRC PhD Scholarship</b> A 4-year PhD research funding, University of Leeds.	2017 - 2021
<b>Full Masters Scholarship</b> Sabanci University Graduate School, Turkey.	2015 - 2017
<b>Best Graduating International Students in Turkey Award</b> 4 <sup>th</sup> International Student Graduation Ceremony, awarded by the Prime Minister.	2015
<b>Full Undergraduate Scholarship</b> The Prestigious Bilateral Education Agreement Scholarship. Ministry of Education, Nigeria & Turkey.	2010 - 2015

## PEER-REVIEWED ARTICLES

---

1. L. Pauly, **W.C. Agboh**, D.C. Hogg, and R. Fuentes, “One-Shot Observation Learning Using Visual Activity Features”, *Frontiers in Robotics and AI*, 2021. [\[PDF\]](#)
2. W. Bejjani, **W.C. Agboh**, M. Leonetti, and M.R. Dogar, “Occlusion-Aware Search for Object Retrieval in Clutter”, *IEEE Int. Conf. on Intelligent Robots and Systems (IROS)*, 2021. [\[PDF\]](#)
3. **W.C. Agboh**, O. Grainger, D. Ruprecht, and M.R. Dogar, “Parareal with a Learned Coarse Model for Robotic Manipulation”, *Comput. Visual Sci.* 23, 8, pp. 1-10, (2020). [\[PDF\]](#)
4. M. Hasan, M. Warburton, **W.C. Agboh**, M.R. Dogar, M. Leonetti, H. Wang, F. Mushtaq, M. Mon-Williams, A. Cohn, “Human-like Planning for Reaching in Cluttered Environments” *IEEE International Conference on Robotics and Automation (ICRA)*, pp. 7784-7790, 2020. [\[PDF\]](#)
5. **W.C. Agboh** and M.R. Dogar, “Pushing Fast and Slow: Task-Adaptive Planning for Non-Prehensile Manipulation Under Uncertainty”, *Algorithmic Foundations of Robotics XIII. WAFR 2018. Springer Proceedings in Advanced Robotics*, vol 14, pp. 160-176, 2020. [\[PDF\]](#)
6. **W.C. Agboh**, D. Ruprecht, and M.R. Dogar, “Combining Coarse and Fine Physics for Manipulation using Parallel-in-Time Integration”, *Int. Symposium on Robotics Research*, 2019. [\[PDF\]](#)
7. **W.C. Agboh** and M.R. Dogar, “Real-Time Online Re-Planning for Grasping Under Clutter and Uncertainty”, *IEEE International Conference on Humanoid Robots*, pp. 387-394, 2018. [\[PDF\]](#)
8. **W.C. Agboh**, M. Yalcin, and V. Patoglu, “A Six Degrees of Freedom Haptic Interface for Laparoscopic Training”, *IEEE IROS*, pp. 1107-1112, 2016. [\[PDF\]](#)
9. G. Sahinkaya, I. Ceylan, H. Er, and **W.C. Agboh**, “Comparison of Xtion Depth Camera and Ultrasonic Sensors for Obstacle Avoidance Applications”, *Mechatronics Student Conf.*, 2015. [\[PDF\]](#)
10. **W.C. Agboh** and M.R. Dogar, “Robust Physics-Based Manipulation by Interleaving Open and Closed-Loop Execution”, *IEEE Transactions on Robotics (Under review)*, 2022. [\[PDF\]](#)

## RESEARCH SUPERVISION

---

Mark Keast and Oluwatobi Sobola, undergraduate final year research projects.	2021 - 2022
Minerva Maheshwari, undergraduate research intern.	Summer 2021
Oliver Grainger, undergraduate research intern.	Summer 2019

## TECHNICAL TALKS

---

- Hamburg University of Technology (TU Hamburg).	Virtual, 2022
--	---------------

- IEEE International Conference on Robotics and Automation (ICRA). Virtual, 2020
- International Symposium on Robotics Research (ISRR). Vietnam, 2019
- 3<sup>rd</sup> UK Manipulation Workshop. UK, 2019
- International Workshop on Parallel-in-Time Integration. Germany, 2019
- Workshop on the Algorithmic Foundations of Robotics (WAFR). Mexico, 2018
- IEEE International Conference of Humanoid Robots (Humanoids). China, 2018
- IEEE International Conference on Intelligent Robots and Systems (IROS). Spain, 2018
- IEEE International Conference on Intelligent Robots and Systems (IROS). South Korea, 2016
- 6<sup>th</sup> Mechatronics Engineering Student Conference (MeMok). Turkey, 2015

## OUTREACH

---

1. **How can AI research create a fairer world?** 2020  
Panelist with a focus on robotics, University of Leeds.
2. **Pint of Science Launch Event.** 2020  
Talk on robotics, our future society, and AI at the Social Pub, UK.
3. **Pint of Robotics.** 2020  
Talk on robotic manipulation and deep learning at the Library Pub, UK.
4. **Africa Day** 2018 - 2020  
Storytelling about Africa, games, and music, in Leeds Primary Schools.
5. **University Open Days.** 2017 - 2020  
Live robot demonstrations, public engagement, lab tours, University of Leeds.
6. **Be Curious** 2019  
Live robot demonstrations for kids and families, University of Leeds.
7. **University Technical College Robot Week** 2018  
Talk with college students in robotics and AI, Leeds, UK.

## PROFESSIONAL ACTIVITIES

---

- **Reviewer** 2016 - 2022  
Robotics conferences and journals - Autonomous Robots, ICRA, RSS etc.
- **Robotics at Leeds Postgraduate Researchers Committee** 2019 - 2022  
Organisation of conferences, seminar series, and other events.
- **PhD to Consulting Conference Committee** 2019  
Session chair, budget planning, and general management, London, UK.

[Twitter](#) — [LinkedIn](#) — [Google Scholar](#)