

DANIEL CARRILLO-ZAPATA

-Scientific Agitator-



scientificagitation.com



danicarzap@scientificagitation.com



@DaniCarZap

Fostering the culture of open science and responsible research & innovation for a more humane technological & scientific development.



EXPERIENCE

- Apr 2021 - Present: Lead Trainer at scicomm.io (robotics & AI communication courses)
- Sep 2020 - Present: Managing Editor at robohub.org
- Jun 2019 - Dec 2019: Awarded EPSRC IAA award to create a swarm-themed escape room to engage in conversations about my PhD research
- May 2019 - Jun 2019: Discussion games on controversial topics in robotics for the Shape your World (Future Quest) project with secondary school students in Bristol, UK
- Nov 2018: Workshop on swarm robotics and responsible research and innovation at the University of Murcia, Spain
- Oct 2018: Swarm robotics demo for Royal Society 'You and AI' at Manchester Science Festival, UK
- Sep 2018: Storytelling of my PhD research for the European Researchers' Night at We The Curious, Bristol, UK
- Jun 2018: Science busk of my PhD research for the PERFORM conference in Paris, France
- May 2018: Improv theatre games to trigger a conversation on robotics for Creative Reactions (Pint of Science) in Bristol, UK
- Nov 2017: Workshops on bio-inspired robotics for British Council's Science in Schools programme in Nancy, France



EDUCATION

- Sep 2015 - Apr 2020: PhD in swarm robotics and inclusion of society at the Bristol Robotics Lab (EPSRC FARSCOPE CDT)
 - Organised several focus groups to engage firefighters in the research and development process of robot swarms for firefighting and rescuing
 - Co-supervisor of an MSc student project developing a robot swarm to assist firefighters
- 2011 - 2015: BSc in computer science (honours) at the University of Murcia, Spain

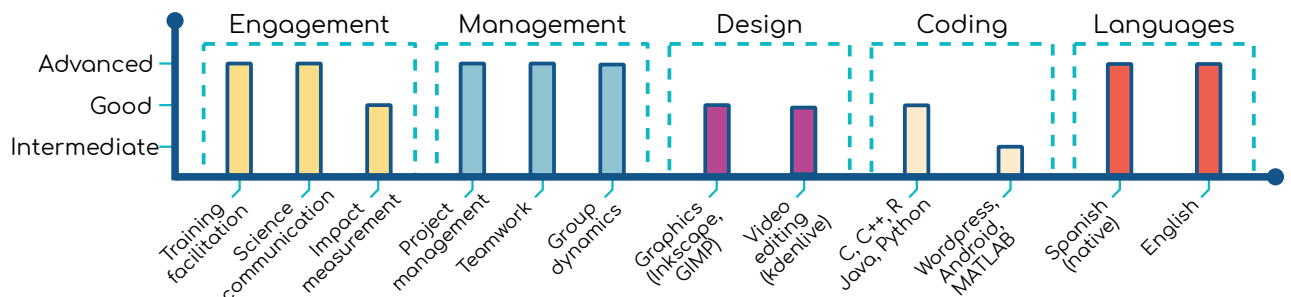


COURSES

- Sep 2021: Mask of Conflict - Erasmus+ training on Gestalt Therapy through Living Theatre
- Apr 2021: Intro to Music and Emotional Intelligence from Diego Marín Romera
- Sep 2019 - Present: Theatre Performance & Gestalt Therapy Theatre
- Jul 2019: Intro to Forum Theatre from Cardboard Citizens
- Aug 2018: Intro to Storytelling for Public Engagement from Clare Murphy
- Nov 2017 - Mar 2018: Participation in PERFORM (grant 665826)
 - Training in responsible research and innovation, and busking
- Jan 2018 - Feb 2018: Intro to Improv Theatre from the Bristol Improv Theatre



SKILLS



PUBLICATIONS

- My thesis: Shaping robot swarms through morphogenesis and interactive engagement with society. Online through University of Bristol Library
- Carrillo-Zapata, D., et al., 2021. Swarm Escape!: an Escape Room Experience to Engage the Public in Swarm Robotics. DARS-SWARM 2021
- Carrillo-Zapata, D., Milner, E., Hird, J., et al., 2020. Mutual Shaping in Swarm Robotics: User Studies in Fire and Rescue, Storage Organization, and Bridge Inspection. *Frontiers in Robotics and AI*, 7
- Carrillo-Zapata, D., et al., 2019. Toward Controllable Morphogenesis in Large Robot Swarms. *IEEE Robotics and Automation Letters*, 4(4), pp. 3386-3393. Also presented at International Conference on Intelligent Robots and Systems (IROS 2019)
- Carrillo-Zapata, D., Lee, C., Digumarti, K., et al., 2019. Lessons from Delivering a STEM Workshop Using Educational Robots Given Language Limitations. In 10th International Conference on Robotics and Education RiE 2019 (pp. 284-295). Springer, Cham
- Slavkov, I., Carrillo-Zapata, D., et al., 2018. Morphogenesis in robot swarms. *Science Robotics*, 3(25)
- Cervantes-Villanueva, J., et al., 2016. Vehicle maneuver detection with accelerometer-based classification. *Sensors*, 16(10), p.1618
- Carrillo-Zapata, D., et al., 2015. Magicfinger: 3d magnetic fingerprints for indoor location. *Sensors*, 15(7), pp.17168-17194