

Deysi Helen Ortega Román: Curriculum Vitae

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Google Scholar Profile: [Deysi Ortega](https://scholar.google.com/citations?user=HOrtegaR&hl=en)

Cardiff University Profile: [Deysi Ortega](https://cardiff.academia.edu/DeysiOrtega)

Profile

PhD candidate and research assistance at the School of Computer Science and Informatics at Cardiff University (Thesis submitted and viva date confirmed). My PhD research was focused on "**Designing Socio-Technical Digital Health Interventions for and with Low-resource Communities**" leveraging community-based social innovation and promoting social inclusivity in the design of digital health technologies. My interests are mainly in areas related to Co-design Methods, Community-Based Participatory Research, Participatory Design, Computer Supported Cooperative Work, Human-Computer Interaction, and Digital Health Technology.

Education

Doctor of Philosophy, Human - Centred Computing October 2021- September 2025

Cardiff University, UK

"Designing Socio-Technical Digital Health Interventions for and with Low-resource Communities"

Advisors: Dr. Nervo Xavier Verdezoto Dias and Dr. Katarzyna Stawarz

Master of Science - Computer Science 2013 - 2015

Ensenada Center for Scientific Research and Higher Education (CICESE), Mexico

"Interactive surfaces to support free play for children with autism"

Advisor: Dr. Monica Tentori

Publications

Peer Reviewed Conferences and Journal Articles:

1. Deysi Ortega, Rosario M. Bartolini, Rossina Pareja, Katarzyna Stawarz, Hilary M. Creed-Kanashiro, Michelle Holdsworth, Paula Griffiths, Emily Rousham, and Nervo Verdezoto. (2026). **Co-Ideating with Caregivers and Healthcare Professionals: Socio-Technical Strategies to Support Early Childhood Nutrition.** *ACM Trans. Comput. Healthcare* Just Accepted (January 2026). <https://doi.org/10.1145/3793548>
2. Tim Weiler, Richard Paluch, Dennis Kirschsieper, Rob Procter, Deysi Helen Ortega Roman, Hussain Abid Syed, Hilda Tellioglu, Stefan Hochwarter, Katharina Lichtenegger and Claudia Müller. **Negotiating Extra Work: A Reflection on Participatory Research Practices in Healthcare.** (2025). *European Conference on Computer-Supported Cooperative Work (ECSCW) 2025.*
3. Deysi Ortega, Rosario Bartolini, Rossina Pareja, Katarzyna Stawarz, Hilary Creed-Kanashiro, Michelle Holdsworth, Emily Rousham, Nervo Verdezoto Dias. **Design Opportunities to Facilitate Tangible Play and Promote Healthy Nutrition in Low-resource**

- Healthcare Settings in Peru.** (2024). *Proceedings of the 7th ACM SIGCAS/SIGCHI Conference on Computing and Sustainable Societies*.
4. Naveen Bagalkot, Siddhant Shinde, Nervo Verdezoto, Manuel Ganief, Muni Ramakka, Ndinelao Litumba, Deysi Ortega, TB Dinesh, Melissa Densmore. (2024). **Collective Infrastructural Speculations: A Situated Understanding of Pasts, Presents & Futures of Resilient Community Networks.** (2024). *Proceedings of the Participatory Design Conference 2024: Full Papers-Volume 1. 2024*.
 5. Deysi Ortega, Rosario Bartolini, Rossina Pareja, Hillary M. Creed-Kanashiro, Katarzyna Stawarz, Michelle Holdsworth, Emily Rousham, Nervo Verdezoto. (2024) **Barriers and Facilitators to Participation when Involving Caregivers and Healthcare Workers in Co-design Workshops in Low-resource Settings.** *Proceedings of the 22nd European Conference on Computer-Supported Cooperative Work: The International Venue on Practice-centered Computing on the Design of Cooperation Technologies-Exploratory papers, Reports of the European Society for Socially Embedded Technologies. 2024*.
 6. Rousham, E., Pareja, R. G., Creed-Kanashiro, H. M., Bartolini, R., Pradeilles, R., Ortega-Roman, D., ... & Verdezoto, N. (2023). **Protocol: Designing intervention prototypes to improve infant and young child nutrition in Peru: a participatory design study protocol.** *BMJ open*, 13(12).
 7. Litumba, N., Shinde, S., Ortega, D., Bagalkot, N., Verdezoto, N., Manuel, G., ... & Densmore, M. (2023). **Reconsidering network management interfaces for communities.** In *Proceedings of the 4th African Human Computer Interaction Conference* (pp. 162-169).
 8. Cibrian, F. L., Peña, O., Ortega, D., & Tentori, M. (2017). **BendableSound: An elastic multisensory surface using touch-based interactions to assist children with severe autism during music therapy.** *International Journal of Human-Computer Studies*, 107, 22-37.
 9. Cibrian, F. L., Ortega, D. H., Escobedo, L., & Tentori, M. (2015). **Reflections from a Long-term Deployment Study to Design Novel Interactive Surfaces for Children with Autism.** In *Ambient Intelligence for Health* (pp. 167-176). Springer, Cham.
 10. Ortega, D., Cibrian, F. L., & Tentori, M. (2015). **BendableSound: A fabric-based interactive surface to promote free play in children with autism.** In *Proceedings of the 17th International ACM SIGACCESS Conference on Computers & Accessibility* (pp. 315-316). ACM.
 11. Peña, O., Ortega, D., Barreras, E., Balestrini, M., & Tentori, M. (2014). **Integration of physical and digital media to allow older adults collectively share narratives during reading groups.** In *Proceedings of the 5th Mexican Conference on Human-Computer Interaction* (p. 53). ACM.

Extended Abstracts and Posters:

1. Maestre, F. J., Verdezoto, N., Stawarz, K., Ortega, D., Chung, C., Shin, JY., Nunes, F., Ayobi, A., Andersen, TO (2025) **Co-Designing Human-Centred AI Technologies for Health and Wellbeing: Approaches, Challenges, and Opportunities.** *British Computer Society's Special Interest Group in Human Computer Interaction Conference (BCS HCI 2025)*. (Accepted)

2. Matluba Khan, Tom Smith, Md Rashed Bhuyan, Nova Amin Khan, Rakesh Sharma, Deysi Ortega Roman. Co-creating 'safe' communities with children and young people: a study from Bangladesh. *RGS-IBG Annual International Conference 2025*. (Accepted)
3. Maestre, F. J., Jain, P., Gatare, K., Ortega, D., Verdezoto, N. (2024) Challenges and Best Practices: Co-Design Approaches in Computing and Beyond. *India HCI 2024*.
4. Ortega, D. (2024) Designing Socio-Technical Digital Health Interventions for and with Low-resource Communities. *Proceedings of the Participatory Design Conference 2024: Situated Actions, Doctoral Colloquium, PDC places, Communities-Volume 3. 2024*.
5. Ortega Roman, D., Bartolini, R., Pareja, R., Creed-Kanashiro, H. M., Stawarz, K., Holdsworth, M., ... & Verdezoto Dias, N. (2024). Physical factors that influence participation: Reflections from co-design workshops with Peruvian low-resource communities. Presented in the *Practices of Participation and Co-Creation in Healthcare Workshop* in *The 22nd European Conference on Computer-Supported Cooperative Work*
6. litumba, N., Shinde, S., Ortega, D., Bagalkot, N., Verdezoto, N., Manuel, G., T.B. Dinesh, M & Densmore, M. (2023). CoLRN-A Community-Based Vision for Local Resilient Networks. Accepted to the Poster track at *The 6th ACM SIGCAS/SIGCHI Conference on Computing and Sustainable Societies*.
7. Pareja, R., Ortega, D., Creed-Kanashiro, H., Bartolini, R., Pradeilles, R., Varela-Silva, I., Griffiths, P., Rousham, E, Verdezoto, N. (2022). Participatory design to develop prototypes for interventions aimed at tackling malnutrition in all its forms in Peru: The PERUSANO study. *Proceedings of the Symposium on Using participatory research to identify solutions for multiple forms of malnutrition: lessons learned from low- and middle-income countries at the International Union of Nutritional Sciences*. Symposium, Tokyo, Japan (Abstract accepted)

Experience

Research Associate, Perusano project

November 2025-present

Activities: To undertake research within Human-Computer Interaction (HCI) and Digital Health such as planning, preparing, setting up, conducting and recording the analysis of different user studies and experiments.

Research Assistant, STFC IAA

October 2025-January 2026

Activities: UI Design and redesign of web site. Making prototypes in Figma, communicating with the main stakeholders and with the developers about the changes. Improve user experience of the VIRIS platform.

Research Assistant, School of Dentistry, Cardiff University

February-October 2025

Activities: Human-centred design and development of a digital health platform, carrying out a literature review, creating wireframes, and facilitating Patient and Public Involvement and Engagement (PPIE) and Advisory Group Workshops to iteratively design and develop a prototype.

Research Assistant, School of Geography & Planning, Cardiff University

Dec 2024-March 2025

Activities: Analysing data (visual and transcripts) to-create a children and young people's plan in Dhaka through piloting **co-creating** children and young people's plan toolkit in marginalised communities in Bangladesh.

Teaching Assistant, Cardiff University, UK 2022-present
Class: Design Thinking and Prototyping for User Experience course

Summer Researcher, Civic Innovation Lab, UNAM 2021
 Working on the Global Workers project with Dr. Saiph Savage
 Activities: Survey Analysis with R

Information Technology consultant, Iniciativa Salud Mesoamérica 2016-2018
 Mesoamerican Health Initiative a public-private initiative managed by the Inter-American Development Bank (IADB) and the Secretariat of Health of Chiapas (ISECH) in Mexico. I worked on the SIAL system (<https://bit.ly/3druDe7>).
 Technologies: JavaScript, Typescript, HTML, CSS, Bulma, Angular, Git, Postman

Teaching Assistant, Instituto Técnológico de Comitán 2013
Classes: Web entrepreneurs, Computing Simulation and Hosting management

Reviewing and Volunteering Experience

PC Member- Exploratory papers track, ECSCW2025 2025

Paper Reviewer, MobileHCI2025 2025

Paper Reviewer, CHI2025, 2026 2024 - 2025

Paper Reviewer, NordiCHI 2024 2024

Student Volunteer, Participatory Design Conference (PDC) 2024
 Part of the SV team for the conference in Sibu, Sarawak, Malaysia.

Co-organiser of discussion and writing sessions, Cardiff University 2023-2025
 I promote and co-organise sessions to get focus time for writing. In the discussion sessions, we discuss papers relevant for the Human-Centred Computing group from Cardiff University.

Paper a month presenter, Technolatinas 2020-2024
 I participate in the "Paper a month" initiative dedicated to facilitating the exploration of scientific articles with latin women through online sessions.

Student Volunteer, Designing Interactive Systems (DIS) 2022
 I could help with paper and pictorial papers checking (regarding format and accessibility).

Workshop for kids: "First steps in Microsoft Word", Chiapas, México 2020
 Workshop to familiarise children (6-13 years) with technology.

Co-Organizer of course “Hacer para aprender”, Chiapas, Mexico 2017
Workshop of basic electronics for kids in Comitán, Chiapas, México.

Honours and Awards

PhD Scholarship, Cardiff University, UK 2021-2024

CONACYT Graduate Fellowship, Mexico 2013-2015

Research Visits

Visiting graduate student, EDIS, Puebla, México 2015

Working with Tangible User Interfaces. Interactive Digital Effect, S.A. DE C.V (EDIS Interactive) at Puebla, México.