

Ramírez Montoya, M.S. & Miranda, J. (2024). Bootcamp Co-creating open solutions through Interdisciplinary Collaboration for the Future of Education: Strategies for global funding [Technical Report]. Bilbao, Spain (October 27-29, 2024). Tecnológico de Monterrey. <https://hdl.handle.net/11285/702861>

## Bilbao 2024 Bootcamp Technical Report



## Organized by:





Official Bootcamp Photo

**Objective:** To empower academic networks, educational leaders, and researchers with the skills needed to secure global funding, foster interdisciplinary collaborations, and develop winning grant proposals. This boot camp includes hands-on workshops, AI-enhanced tools, and interactive sessions, all focused on driving innovation, openness, and the future of education.

**Participants:** 83 academics from 27 countries (Argentina, Canada, Colombia, Costa Rica, Croatia, Finland, Germany, Ghana, Greece, Guatemala, Hungary, India, England, Italy, Lithuania, Mexico, Netherlands, Pakistan, Peru, Scotland, Slovakia, South Korea, Spain, South Africa, United States, Uruguay, Zambia).

Participants came from 40 institutions: Tecnológico de Monterrey, Mondragon University, University of Leeds, National Polytechnic Institute, MIT Jameel World Education Lab, University of Technology Sydney, University of Cape Town, The Cyber University of Korea, City of Glasgow College, Pontificia Universidad Católica del Perú, Fleming College Toronto, Open Education Global, The Open University, University of Zambia, Twente University, Universitat Jaume I, Manchester Metropolitan University, Department of Teacher Education - Central University of Haryana, Independent Consultant, Institución Universitaria Pascual Bravo, The Hague University of Applied Sciences, CUCEA University of Guadalajara, SPARC Europe, Institute for the Future of Education - Europe, Universidad Peruana de Ciencias Aplicadas, Universidad Nacional de Educación a Distancia (UNED), IBLHUB, MyNovaMind, Universidad Autónoma de Nuevo León, Galileo University, King's College London, Politecnico di Torino, Kaunas University

of Technology, Juraj Dobrila University of Pula - Faculty of Informatics, Metropolitan College, Centro Ricerche "scientia Atque usus" per la Comunicazione Generativa ETS, Inter American University of Puerto Rico, Instituto Escalae, Universidad Autónoma de Tlaxcala.



"Global Representation of Participants: 83 Participants from 27 Countries"

**Method:** Bootcamp on Global Funding Strategies focused on developing proposals for global funding, centered on driving educational innovation, openness, and the future of education. We use an agile methodology with generative AI, gamification, and multimedia resources, creating a dynamic environment that enhances participants' learning and development. This approach includes a series of workshops focused on analyzing funding opportunities, promoting knowledge equity, designing competitive projects, fostering interdisciplinary collaboration, and writing successful proposals. Through continuous feedback and iterative improvement, participants refine their ideas and proposals, maximizing impact and ensuring alignment with funding criteria—all within a framework that promotes innovation and adaptability.

**Period:** development of the bootcamp (October 27-29, 2024), submission of the manifesto (January 30, 2025), period for submission of funding proposals (December 2024 - May 2025).

**Place:** AS FABRIK, Ribera Zorrotzaurreko, 2A, 48014 Bilbao, Spain.

**Website:** Bootcamp Co-creating open solutions through interdisciplinary collaboration for the future of education: Strategies for Global Funding Bootcamp 2024: <https://www.research4challenges.world/en/future-eprojects-bootcamp>

**Workspace Platform:** Co-creation of open solutions through interdisciplinary collaboration for the future of education: Strategies for Global Funding Bootcamp 2024: <https://sites.google.com/view/bootcampbilbao2024/home>

**October 28:** <https://sites.google.com/view/bootcampbilbao2024/oct-28?authuser=0>

- Workshop 1: Competitive Intelligence and Project Design. [https://www.youtube.com/watch?v=h\\_ubxndi4iM&ab\\_channel=technosih](https://www.youtube.com/watch?v=h_ubxndi4iM&ab_channel=technosih)
- Workshop 2: Designing Interdisciplinary Collaboration. [https://www.youtube.com/watch?v=XBc-Fmdz04w&ab\\_channel=technosih](https://www.youtube.com/watch?v=XBc-Fmdz04w&ab_channel=technosih)
- Manifesto Development: Manifesto Builder / Book

**October 29:** <https://sites.google.com/view/bootcampbilbao2024/oct-29?authuser=0>

- Workshop 3: Best Practices for Winning Proposals. [https://www.youtube.com/watch?v=oaoLK4Wrp\\_0&ab\\_channel=technosih](https://www.youtube.com/watch?v=oaoLK4Wrp_0&ab_channel=technosih)
- Workshop 4: Pitch your Project Idea & Call to Action. [https://www.youtube.com/watch?v=zHT7qJGXwjY&ab\\_channel=technosih](https://www.youtube.com/watch?v=zHT7qJGXwjY&ab_channel=technosih)

#### **Panel 1:**

Hasenmueller, M., Ramírez-Montoya, M.S., Mitchel, M., Lesko, I., Altuna, J. & Martínez-Arboleda, A. (coord). Exploring the Future of Education: Knowledge Sharing and Openness for Sustainability. Bootcamp Co-creating open solutions through interdisciplinary collaboration for the future of education: Strategies for global funding. Bilbao, Spain, 28th October 2024. <https://hdl.handle.net/11285/702858>

#### **Panel 2:**

Mansour, Ch., Montoya, M.A., Cox, G. & Zavala, G. (coord). Lights and shadows in global finance: Lessons from the past and strategies for the future. Bootcamp Co-creating open solutions through interdisciplinary collaboration for the future of education: Strategies for global funding. Bilbao, Spain, 29th October 2024. <https://hdl.handle.net/11285/702860>

#### **Pre-Bootcamp Video:**

Miranda, J. & Ramírez-Montoya, M.S. (2024). Pre-Bootcamp Bilbao 2024: Co-creating open solutions through Interdisciplinary Collaboration for the Future of Education. [https://youtu.be/dw\\_JzOlqgQU?si=0aZK895vRoCukYOF](https://youtu.be/dw_JzOlqgQU?si=0aZK895vRoCukYOF) and <https://hdl.handle.net/11285/702863>

#### **Closing Video:**

Miranda, J. & Ramírez-Montoya, M.S. (2024). Bootcamp Bilbao 2024: Co-creating open solutions through Interdisciplinary Collaboration for the Future of Education. [https://www.youtube.com/watch?v=xIC-utHhytQ&ab\\_channel=MariaSoledadRamirez-Montoya](https://www.youtube.com/watch?v=xIC-utHhytQ&ab_channel=MariaSoledadRamirez-Montoya) and <https://hdl.handle.net/11285/702862>

**Results\*:** 11 project proposals designed collaboratively by international network teams, 1 manifesto containing 11 chapters to be published in open access books.

**\*Results: 11 Collaborative Projects for the Future of Education**

<https://padlet.com/jhonattanmiranda/demo-session-l6sda960vtf4gw92>

Team	Authors	Project Name	Project Overview	Graphic presentation of the project with Artificial Intelligence tools
1	Álvarez-Icaza, Inés    Casillas, Fidel    Kligyte, Giedre    Wilson, Joe R.    Cox, Glenda    Peters, Mitchell	COLAP-4G-Co-Creating Lifelong Learning: Agile Pathways for Global Higher Education Transformation	The innovation of this work aims to modernize higher education to better prepare students for a world where jobs and required skills are quickly changing due to advancements in technology like AI and automation. This project seeks to create flexible and relevant educational pathways that help learners continuously update their skills throughout their lives. By working together with various stakeholders, including universities and employers, the initiative plans to develop education models that are responsive to regional needs and aligned with global labor market demands. It also focuses on new ways to recognize learning achievements, such as digital badges, ensuring that education remains connected to real-world requirements and supports sustainable development goals.	<a href="https://padlet.com/jhonattanmiranda/demo-session-l6sda960vtf4gw92/wish/zV61Q68L01NbWO98">https://padlet.com/jhonattanmiranda/demo-session-l6sda960vtf4gw92/wish/zV61Q68L01NbWO98</a>
2	López, Edgar    Carlos George    Mansour, Chadia    Lesko, Igor    Portuguese	Women in STEM Empowerment in Latin America	Our proposal aims to increase the enrollment of women in Latin American STEM fields through targeted curricular and mentorship programs. By addressing challenges in the early stages of their undergraduate journey, we strive to reduce entry barriers and	<a href="https://padlet.com/jhonattanmiranda/demo-session-l6sda960vtf4gw92/wish/1xkVaqBJPGmRQl0e">https://padlet.com/jhonattanmiranda/demo-session-l6sda960vtf4gw92/wish/1xkVaqBJPGmRQl0e</a>

	Castro, May    Aguilar Llanes, Salomé    Enciso, Juan		empower women with essential skills in critical thinking, teamwork, and confidence. This initiative fosters excellence in technology, engineering, and innovation, enabling participants to make impactful contributions within their communities and beyond.	
3	Glasserman, Leonardo    Alcántar, Carolina    Van 't Klooster, Jan-Willem    Bossu, Carina    Martínez- Arboleda, Antonio    Herrero, María del Carmen    Sánchez, Lucía	Empowering Higher Education through Open Education, Digital Competencies, and AI-Enhanced Learning: A Multidisciplinary Approach – EMPHASIS	Proposes a solution that enables Higher Education to train the trainers in a sustainable way to implement emerging technologies, education and openness through evidence-based needs, analysis, course, design and delivery.	<a href="https://padlet.com/jhonattanmiranda/demo-session-l6sda960vtf4gw92/wish/LNV1Q7eL91qDWmq3">https://padlet.com/jhonattanmiranda/demo-session-l6sda960vtf4gw92/wish/LNV1Q7eL91qDWmq3</a>
4	Caratozzolo, Patricia    Azofeifa, José Daniel    Sjoer, Ellen    Villanueva, Cynthia    Berastegui, Luis    Díaz, Wendy    Osorio, Jorge    Yadav, Aarti    Norgaard, Bente	Empowering Future Educators across borders and disciplines with Adaptive, Collaborative, and Experiential Learning Ecosystems	This project empowers future Higher Education Institution (HEI) educators by developing adaptive, open resources and collaborative spaces that support innovative, student-centered teaching practices. Designed as a dynamic learning ecosystem, the project equips educators with tools for interdisciplinary learning, active engagement, and flexible course design. Through immersive practicum experiences, exploratory labs, and co-creation hubs, participants will gain practical skills for designing real-world, problem-solving activities that bridge disciplines and foster sustained student motivation. By promoting accessible, competency-driven pathways, this project enhances teaching quality and equity and prepares educators to lead	<a href="https://padlet.com/jhonattanmiranda/demo-session-l6sda960vtf4gw92/wish/j40PQDXkJAEJQvXB">https://padlet.com/jhonattanmiranda/demo-session-l6sda960vtf4gw92/wish/j40PQDXkJAEJQvXB</a>

			transformative, experiential learning in modern HEIs worldwide.	
5	Neergaard, Karl    Ávila, Daniela    Ferrández, María Reina    Chans, Guillermo    Corti, Paola    Beltrán, Jesús    Anton, Eneko	HEI Fred! Higher Education Innovation through Friendly Education	Proposes a solution that helps teachers to increase their teaching motivation through gamification.	<a href="https://padlet.com/jhonattanmiranda/demo-session-l6sda960vtf4gw92/wish/NvylWE07R8qOZ0OX">https://padlet.com/jhonattanmiranda/demo-session-l6sda960vtf4gw92/wish/NvylWE07R8qOZ0OX</a>
6	Rodríguez, Joaquín    Garay, Claudia    Arroyo, Amaia    Torres, Patricia    Iniesto, Francisco    Flores, Daniel	W-IMPACT Women Improving Migrant Potential: Accessing Careers and Training.	This project empowers migrant women through language training, socio-emotional support, legal guidance, and job placement assistance. Support is provided via mobile devices, addressing gender, cultural and social context, and employment discrimination. The solution benefits integration and self-sufficiency via a scalable and adaptable solution which measures impact across diverse cultural contexts.	<a href="https://padlet.com/jhonattanmiranda/demo-session-l6sda960vtf4gw92/wish/IDK1ZRbqPnzpZJ9z">https://padlet.com/jhonattanmiranda/demo-session-l6sda960vtf4gw92/wish/IDK1ZRbqPnzpZJ9z</a>
7	Rodés, Virginia    Fernández, Uxia    Molnarne-Laszlo, Andrea    González Pérez, Laura Icela    Morales Chan, Miguel Antonio    Argüelles, Amadeo    Larrea, Iñaki    Alvarado, Mercedes	INTEGRITY-AI: INTEgrating Ethical AI Governance for Responsibility, Innovation, and TransparencY in Higher Education	Proposes a solution that helps students, faculty, and administrative staff in Latin American universities, as well as other higher education institutions (HEIs) across the region, to achieve the establishment of specialized units that support the ethical and effective integration of AI. This is accomplished through a structured approach that combines governance frameworks, ethical guidelines, and tailored training programs, empowering HEIs to lead in responsible AI adoption and become beacons of trust, transparency, and academic integrity in AI usage across the educational landscape.	<a href="https://padlet.com/jhonattanmiranda/demo-session-l6sda960vtf4gw92/wish/BJkrQADLV30XaEge">https://padlet.com/jhonattanmiranda/demo-session-l6sda960vtf4gw92/wish/BJkrQADLV30XaEge</a>

8	Tariq, Rasikh    Martínez, Magaly    Wilberforce Awotwe, Tabbi    Salazar Gómez, Andrés Felipe    Morales, Marcela    Torres Castillo, Cristina Sofia	Dyslexia-Sensitive Tailored Capacity Building in Artificial Intelligence in Latin America: Bridging the Gap for Special Educational Needs	Proposes a solution that trains Latin American students in AI literacy through a culturally adapted curriculum supported by a dyslexia-sensitive platform. Teachers will be specifically trained on the material and pedagogies using the "train the trainer" model so the impact is scalable and has high reach in the region. having automated backend with integrated learning analytics. The program will follow project-based learning and hands-on activities.	<a href="https://padlet.com/jhonattanmiranda/demo-session-l6sda960vtf4gw92/wish/x5A7arkn6YDPQwr6">https://padlet.com/jhonattanmiranda/demo-session-l6sda960vtf4gw92/wish/x5A7arkn6YDPQwr6</a>
9	Zavala, Genaro    Meléndez, Frank    Orehovaäki, Tihomir    Gudoniene, Daina    Pereira, Marcus    Domínguez, Ángeles    Balatorre, Maria Giulia    Grijalva, Christian    Rojas, Juan Carlos	STEM-CARES (STEM Community for AI Resources and Educational Strategies)	Proposes a solution that helps STEM lecturers, students, academic institutions, educational researchers, and policymakers to achieve enhanced teaching efficacy, enriched student engagement, and continuous pedagogical innovation through a collaborative platform that centralizes curated, AI-driven teaching strategies and facilitates knowledge-sharing among educators, advancing STEM education through shared expertise and practical AI applications.	<a href="https://padlet.com/jhonattanmiranda/demo-session-l6sda960vtf4gw92/wish/4b3zaM7PYNYdZ2j7">https://padlet.com/jhonattanmiranda/demo-session-l6sda960vtf4gw92/wish/4b3zaM7PYNYdZ2j7</a>
10	Ramirez- Montoya, María Soledad    Patiño, Azeneth    Mouhtaropoulos, Antonis    Davini, Viola    Mitchell, Megan	AIF4C: Fostering Collaboration: Building AI Fluency to Transform Educational Practices and Learning	Proposes a solution that helps educational staff to achieve AF fluency through an open source platform by providing personalized training programs, fostering a collaborative learning environment, and reducing inequalities in AI knowledge	<a href="https://padlet.com/jhonattanmiranda/demo-session-l6sda960vtf4gw92/wish/pRxDZ4rn6D2Xa183">https://padlet.com/jhonattanmiranda/demo-session-l6sda960vtf4gw92/wish/pRxDZ4rn6D2Xa183</a>



	Rodríguez, José Antonio			
11	Montoya, Miguel    Anas, Mohd    Camacho, Claudia    Caro, Diego    Malpica, Federico    Imaz, Ainara    Carmona, María Enedina    Vicario, Marina Claudia	The TwinLearn project: teacher professional development by personalized learning pathways based on digital twins	The TwinLearn project aims to engage four different European Countries in a synergy to revolutionize teacher professional development by personalized learning pathways (based on digital twins, real time data), addressing the critical challenge of low-impact, one-size-fits-all training programs, lack of facilities and digital divide across the regions or vulnerable minorities.	<a href="https://padlet.com/jhonattanmiranda/demo-session-l6sda960vtf4gw92/wish/e9YpQNx6voXlWxjM">https://padlet.com/jhonattanmiranda/demo-session-l6sda960vtf4gw92/wish/e9YpQNx6voXlWxjM</a>

