



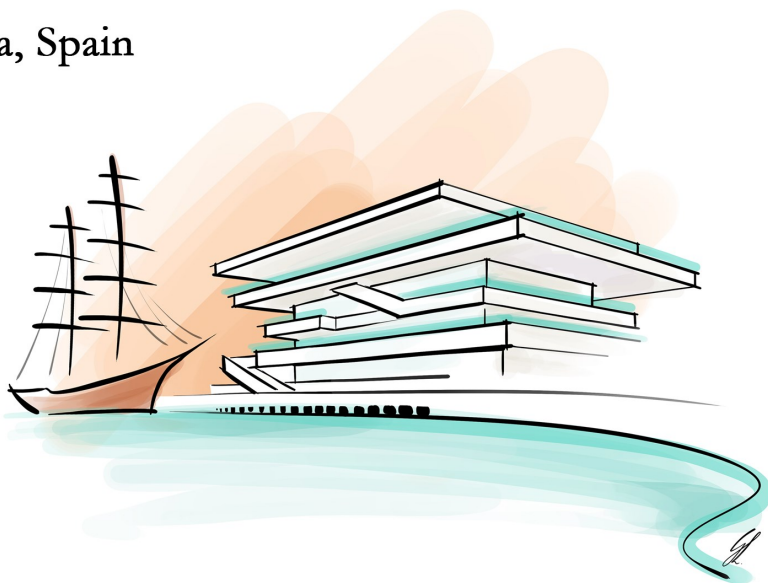
UNIVERSITAT  
POLITÈCNICA  
DE VALÈNCIA

# HEAD '24

10<sup>th</sup> International Conference  
on Higher Education Advances

June 18-21, 2024

Valencia, Spain



ADE  
Facultat d'Administració  
i Direcció d'Empreses /UPV

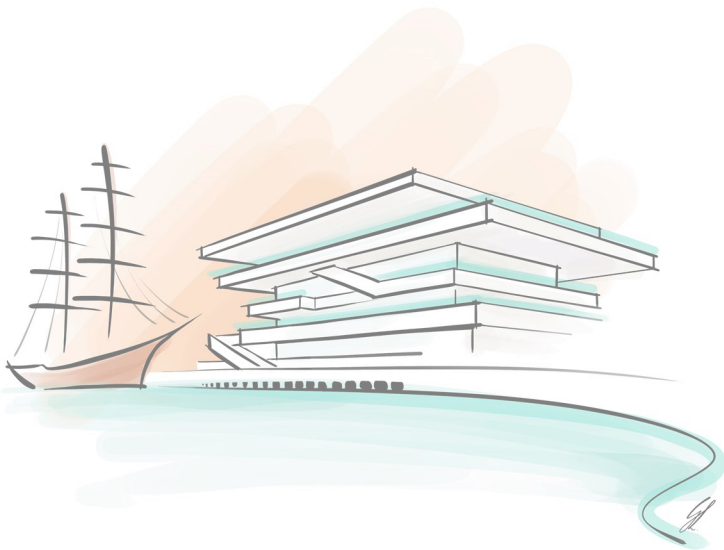




# HEAd '24

## 10<sup>th</sup> International Conference on Higher Education Advances

June 18-21, 2024  
Valencia, Spain



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## WELCOME MESSAGE



Josep Domenech

Welcome to the Tenth International Conference on Higher Education Advances (HEAd'24)! We are thrilled to celebrate this milestone anniversary event with you in the beautiful city of Valencia, Spain, from June 18 to 21, 2024.

For a decade, HEAd has served as a dynamic platform for researchers, educators, students, and professionals worldwide to exchange ideas, experiences, and research findings related to the preparation of students and the organization of higher education systems. Our conference has grown significantly over the years, attracting 2,200 participants and receiving 3,086 paper submissions from 3,902 authors, highlighting its profound impact on the academic community.

This year, the selection of papers for HEAd'24 was meticulously conducted by a diverse team of 219 committee members from 44 countries across all five continents. Out of 288 full paper submissions from 56 countries, 81 papers were accepted for full presentations, maintaining our commitment to showcasing high-quality research with an acceptance rate of 28%. Additionally, 39 submissions were accepted for short paper presentations and 40 for poster presentations, all published by UPV Press.

Our conference program addresses key topics that are shaping the future of higher education. This year, we are focusing on the integration of artificial intelligence, emphasizing its transformative role in teaching and enhancing academic integrity. We also highlight health and psychological well-being, innovative approaches for inclusive educational environments, sustainability, global citizenship, entrepreneurship, and career readiness.

We are excited to present three keynote speeches that cover significant and timely topics: "Designing Curriculum in the Age of Diversity" by Cesar Ortega-Sanchez (Curtin University, Australia), focusing on student self-improvement; "Leading the Way" by Andrea Ward (University of Derby, UK), on the significant role of higher



education institutions and their staff.; “AI\_ways for Higher Education” by Susanna Sancassani (Politecnico di Milano, Italy), exploring the implications and opportunities of artificial intelligence in higher education.

Additionally, HEAd’24 features three pre-conference workshops offering hands-on exploration of specific topics: “Reinventing University: the Digital Challenge in Higher Education” led by Stefania Capogna, Maria Chiara De Angelis, and Erika Zuperkiene; “Optimizing University Module Design” organized by Nataliya Romanyatova; and “Hacking a Hackaton” by Janika Leoste and Tomi Kauppinen.

This conference is proudly supported and hosted by the Faculty of Business Administration and Management of the Universitat Politècnica de València, our home since the first edition in 2015.

We extend our heartfelt thanks to everyone who has contributed to the success of HEAd over the past decade: our invited speakers, authors, scientific committee members, reviewers, session chairs, presenters, sponsors, supporters, and attendees. Special gratitude goes to the Faculty of Business Administration and Management of the Universitat Politècnica de València for their unwavering support.

Welcome to HEAd’24! We look forward to a stimulating and enriching conference experience with you.

June 2024

Josep Domenech  
General Chair

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 Cesar Ortega-Sanchez, Curtin University, Australia  
 Kateryna Osadcha, Bogdan Khmelnytsky Melitopol State Pedagogical University, Ukraine

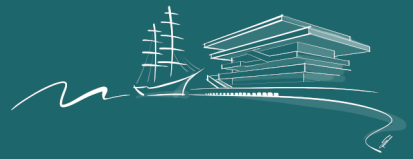




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- Terence Reilly, Babson College, USA
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- Martin Salzmann-Erikson, University of Gävle, Sweden
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- LeChen Zhang, Stockholm University, Sweden
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- Roza Zhussupova, Eurasian National University, Kazakhstan
- Ana Zorio-Grima, Universitat de València, Spain
- Joerg Zumbach, University of Salzburg, Austria

# BRIEF PROGRAM

	Wednesday 19	Thursday 20	Friday 21	
9:00-10:30	<b>Opening</b>	4a. Active Learning 4b. Competences and Skills II	8a. Management of Higher Education	9:00-10:30
	<b>Keynote I</b> Cesar Ortega-Sanchez	4c. Economics, Finance and Business Education 4d. Emerging Educational Technology II	8b. Innovative Learning and Teaching Experiences III 8c. Innovative Learning and Teaching Experiences IV	
10:30-11:00	<b>Coffee break</b>		<b>Poster session (III) &amp; Coffee break</b>	10:30-11:15
11:00-12:00	1a. Evaluation, Feedback & Assessment I 1b. Teacher Training I 1c. Global Education	5a. Academic Development and Well-being 5b. Health and Medical Education II 5c. Multidisciplinary educative strategies 5d. SOWISO (sponsored)	9a. Employability 9b. Internationalization 9c. Embracing Educational Transformation 9d. STEM Education II	11:15-12:30
12:00-13:00	1d. Engineering & Architecture Education	<b>Keynote II</b> Andrea Ward	<b>Keynote III</b> Susanna Sancassani	12:30-13:30
13:00-14:30	<b>Lunch break</b>		<b>Closing</b>	13:30-14:00
14:30-16:00	2a. Emerging Educational Technology I 2b. Collaborative, Community & Playful Learning 2c. Innovative Learning and Teaching Experiences I 2d. Health and Medical Education I	6a. Evaluation, Feedback & Assessment II 6b. Competences and Skills II 6c. Artificial Intelligence in HE II 6d. Innovative Learning and Teaching Experiences II		
16:00-16:45	<b>Poster session (I) &amp; Coffee break</b>	<b>Poster session (II) &amp; Coffee break</b>		
16:45-18:00	3a. Artificial Intelligence in HE I 3b. Inclusion and Diversity in Higher Education 3c. Teacher Training II	7a. STEM Education I 7b. Research in Higher Education 7c. Sustainability 7d. e-learning		



## KEYNOTE

# DESIGNING CURRICULUM IN THE AGE OF DIVERSITY: HELPING STUDENTS BECOMING THE BEST POSSIBLE VERSIONS OF THEMSELVES

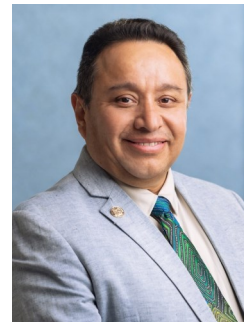
## Cesar Ortega-Sanchez

Wednesday 19, 9:30-10:30

Room: Salón de Actos (Conference Hall)

**Cesar Ortega-Sanchez** is a Senior Fellow of the Higher Education Academy and Fellow of the Curtin Academy. He is currently Associate Professor of Electrical Engineering at Curtin University in Western Australia. He is interested on how social and technological changes affect education, and what can be done to facilitate learning and teaching. He is a regular contributor in higher education conferences as presenter and keynote speaker. His favourite topics are curriculum and assessment design, first year experience, project-based learning and capstone projects.

As if subjected to Darwinian forces, Higher Education is always evolving to adapt to changes in the environment: Regulatory bodies, university policy, industry demands, student expectations; all play a part in the design, review and amendment of curriculum. But with so many voices, designing curriculum that meets everybody's expectations is practically impossible. The success of a curriculum, as measured by students' attainment of the learning outcomes, heavily depends on students' engagement with the material and activities involved. Furthermore, the same curriculum can be experienced very differently depending on students' backgrounds and lifestyles. And today's cohorts are much more diverse than 20 years ago! In this talk Cesar offers a reflection about the perceived decline in some students' ability to engage in learning activities, and invites listeners to consider some possibilities to improve the quality and effectiveness of university programs.



Cesar Ortega-Sanchez

## KEYNOTE

# LEADING THE WAY

## Andrea Ward

Thursday 20, 12:00-13:00

Room: Salón de Actos (Conference Hall)



Andrea Ward

Andrea Ward is a Principal Fellow and Senior Fellow of the Higher Education Academy and certified Business Management and Educator (CMBE), a professional recognition from the Chartered Association of Management Schools (CABS). She also holds a Fellow of the Chartered Management Institute and is an Associate of the CIPD. Andrea is also a governor of the DN College Group, a combined FE and HE provider, and holds the vice chair position of the Learning, Teaching and Student Experience Committee of CABS where she has been a reviewer for their LTSE conference since 2021. Andrea has also been a Visitor Professor at the University of Primorska.

Following a career of 20 years in industry across many sectors, industries and job roles she commenced her formal entry into the world of Higher Education in 2013, at the University of Sheffield Management School. Andrea quickly made her mark both internally and externally by becoming Director of Teaching, Quality and Enhancement for PGT, shortlisted for Turnitin Global awards in Innovation (2014), awarded the Jane Ryland Award (2015) for use of technology in education, one of only 4 in the UK to ever win this award. In 2016, Andrea was awarded the Early Career Senate award from the University of Sheffield for her innovation in education before being appointed as Associate Dean for Education (2018). This role saw lots of changes and turbulence; first with the national UK strike action, and then Covid. Andrea is currently Deputy Dean of the College of Business Law and Social Sciences at the University of Derby.

Andrea's success is driven by her passion of providing students with the highest quality learning experience, changing HE from the inside out, and positive collaboration across all teams to make meaningful differences to learners. As one student put it "Andrea not only attempts to develop employable people, but she has assured that we are employed by making us decipher for ourselves the real-world skills for real world situations".



## KEYNOTE

# AI\_WAYS FOR HIGHER EDUCATION

## Susanna Sancassani

Friday 21, 12:30-13:30

Room: Salón de Actos (Conference Hall)

**Susanna Sancassani** is the Head of Unit of METID, the task force devoted to teaching and learning innovation at Politecnico di Milano, where she is lecturer of “Teaching methodologies, strategies and styles” at the PhD School and responsible of the Faculty development about teaching innovation. One of the pioneer of digital learning in Italy she is part of the Directive Board of the Italian Society of e-Learning (sieL) and of several international boards as the Scientific Committee of International Consortium for Educational Development 2024.

With other colleagues she has published “La ricerca del giusto mezzo: strategie di equilibrio tra aula e digitale” (Milano, Pearson 2023), “Progettare l’Innovazione didattica” (Milan , Pearson 2019, eng. Version for the global distribution “Designing Teaching Innovation” Milan , Pearson 2021) “Costruire servizi digitali” (Milan, Apogeo, 2003) “Il bit e la tartaruga” (Milan Apogeo, 2004) and “e-Collaboration: the sense of the Web” (Milan, Apogeo 2011).



Susanna Sancassani

## WEDNESDAY 19

(F) FULL PAPERS: 20 MIN PRESENTATION PLUS 5 MIN Q&A

(S) SHORT PAPERS: 10 MIN PRESENTATION PLUS 5 MIN Q&A

(P) POSTERS

### Session 1a. Evaluation, Feedback & Assessment I

Wednesday 19, 11:00 – 13:00. Room 1. Chair: Custódia Fonseca

(F) Student Experiences with Continuous Assessment in DCU Futures at Dublin City University

Hadjer Taibi, Eemer Eivers

(F) Using online peer feedback tools to improve undergraduate group interaction and assessment quality

Kirsty Louise Emery, Mark Douglas Shephard, Susan Janet Matthews

(S) Measuring the effectiveness of a micro-credential programme: utilising the Kirpatrick's model for evaluation. A Case Study

Anu Tammeleht, Kertu Rajando

(F) Can Artificial Intelligence Complete My Assessment? A Student Led Initiative to Stress Test the Academic Integrity of University Assessment Using Generative AI

Aidan Duane

(F) Financial Advisory in Classroom: Educational Innovation Based on Project-Based Learning (PBL)

Elena Ferrer, Isabel Abinzano, Harold Bonilla, Pilar Corredor, Cristina Del Río, Ana González, Jose Manuel Mansilla, Beatriz Martínez, Luis Muga

### Session 1b. Teacher Training

Wednesday 19, 11:00 – 13:00. Room 2. Chair: Orlanda Tavares

(F) From AI-Generated Lesson Plans to the Real-Life Classes: Explored by Pre-Service Teachers

Dilara Yilmaz Can, Ceyda Durmus

(F) Using service learning to foster diversity competency of pre-service chemistry teachers at the University of Vienna

Sandra Pia Harmer, Michael Alfred Anton

(F) The effects of virtual reality learning activities on student teachers' emotional and behavioral response tendencies to challenging classroom situations

Julia Mendzheritskaya, Miriam Hansen, Sebastian Breitenbach

(F) Teacher Education Students' Visions Shaping Future Generations

Claudia Schreiner, Sabrina Bacher, Christian Kraler

(S) Language Teacher Education on Project-Based Learning and Teaching

Hye Pae, Gulbahar Beckett



## Session 1c. Global Education

Wednesday 19, 11:00 – 13:00. Room 3. Chair: Ines Oldenburg

### (F) Global Citizenship Education in Social Virtual Reality for Future English Teachers

Jeanine Steinbock, Maria Eisenmann

### (F) What's in it for us? Boosting social inclusion through international students' mobilities into higher institutions in the GCC

Anthonia Eboseremen Bamidele

### (F) Embedding Indigenous Perspectives: A Consideration of Place in Local and Transnational Education

Gabrielle Murray, Cathy Doe

### (F) "I should" vs. "I would" in International Graduate Students' Positioning as Global Talents

Jiyoung Park, Loutong Li, Julia Ivy

### (S) Bridging Continents: Exploring Cultural Dynamics in a COIL Experience

Alba Manresa, Marcella Prince

## Session 1d. Engineering & Architecture Education

Wednesday 19, 11:00 – 13:00. Room 4. Chair: Katia Passerini

### (F) Teaching Gender in Engineering: Path-creation for Gender-Sensitive Innovation

Elisabeth Eppinger

### (F) Bridging the Gap: Developing Entrepreneurial Competences in Engineering Studies

Dolors Gil-Doménech, Jasmina Berbegal-Mirabent, Alba Manresa

### (F) Learning and Motivation Impact of Collaborative Questioning Sessions in Construction and Building Engineering Educational Environments

Pablo Pujadas, Stanislav Aidarov

### (S) The current educational atmosphere regarding Graphic Engineering courses in university degrees

Diego-José Guerrero-Miguel, Pablo Pando Cerra, María-Belén Prendes-Gero, Miguel Muñiz-Calvente

### (S) BIM evolution of architectural teaching

Antonio Basti, Elena Di Giuseppe

### (S) Innovative Engineering: Developing Laser Manufacturing and Optical Detection Systems

Miguel Morales, Juan José Moreno Labella, David Munoz-Martin, David Canteli, Cristina Muñoz, Sara Lauzurica, Carlos Molpeceres

## Session 2a. Emerging Educational Technology I

Wednesday 19, 14:30 – 16:00. Room 1. Chair: María Consuelo García

(F) **Making the invisible visible: Augmented Reality and Distributed Optic Fiber in educational Structural Engineering labs**

Ignasi Fernandez, Carlos Gil Berrocal, Rasmus Rempling

(F) **Small Space – Low Budget. Designing an Innovation Lab for Lecturers in Higher Education**

Birgit Hawelka, Linda Puppe, Regine Bachmaier

(F) **Twitter as an instructional tool for critical thinking and creativity in Higher Education**

Antonio Miguel Nogués-Pedregal, Daniel Carmona-Zubiri

(S) **Comparing Students' Perception of Higher Education's Digitalization – A Longitudinal Study**

Sven Packmohr, Henning Brink

## Session 2b. Collaborative, Community & Playful Learning

Wednesday 19, 14:30 – 16:00. Room 2. Chair: Claudia Schreiner

(F) **Diversity in Teamwork and Its Implications in O&SCM: A Dive into Students' Perspectives**

Stefania Boscarì, Thomas Bortolotti, Mar Díaz Trullàs, Ahmadrza Zare

(F) **Team Building that Prepares Students for Teamwork Competence**

Avan Jassawalla, Hemant Sashittal, Alan Witt

(S) **Effect of an authentic design thinking learning experience on collaboration, social problem-solving and satisfaction in physiotherapy and dietetics students**

Nicola Dervan, Clare Corish, Celine Murrin, Annelie Shaw, Caoimhe Kenny, Mags Carey, Ruth Charles, Grainne O'Donoghue

(F) **Less Anxious, More Confident: the Use of Playful Pedagogy to support student learning of quantitative methods**

Sophie Harris, Simon Massey, Carla Cordner, Julie Scott Jones





## Session 2c. Innovative Learning & Teaching Experiences I

Wednesday 19, 14:30 – 16:00. Room 3. Chair: Ernest Bernat Maso

(F) **An Active Learning Simulation for Teaching Hadoop in an Undergraduate Business Curriculum**

Ruben A Mendoza

(F) **ENLIGHT Methodology for the Impact Assessment of Higher Education Initiatives**

Glória Nunes Rodrigues, Igor Campillo Santos, Iñigo Puertas Paz

(F) **Key role of teachers in sustainable inter-university education**

Alvaro Pina Stranger, German Varas, Aude Le Saux Slimane Sales

(S) **Increasing Student Success across Faculties through an Immersive Block Model: An Australian Case Study of Innovative Teaching and Learning**

Thomas Roche, Erica Wilson, Elizabeth Goode

## Session 2d. Health and Medical Education I

Wednesday 19, 14:30 – 16:00. Room 4. Chair: Chi-Ming Wong

(F) **Chronically ill patients and adherence: a new challenge for educators committed to training future health professionals**

Natascia Bobbo

(F) **Enhancing Learning in Biomedicine through Research-based Learning: Empowering Students for Future Success**

Francisca P. Correia, Patrícia Pinto Pinho, Renato Silva, Luísa Helguero, Maria Lourdes Pereira, Bruno Neves, Margarida Fardilha

(F) **Promoting Death Literacy in Palliative Care Nursing Education Using Narrative Pedagogy**

Joel Vitorino, Ana Querido, Isabel Semeão, Carlos Laranjeira

(S) **In situ Clinical Simulations in Primary Care applied to emergency training**

David Lacasta-Tintorer, Noelia Esplugas-Muñoz, Anna Estafanell-Celma, Celia Tajada-Vitales, Jofre BIELSA-PASCUAL, Eduard Moreno-Gabriel, Pere Toran-Montserrat

## Poster Session 1

Wednesday 19, 16:00 – 16:45.

(P) **The Importance of Entrepreneurship Education for Startup Creation in Thailand**

Sirinda Nititham, Robert Phillips

(P) **The challenges of implementing Course-Based Undergraduate Research Experiences (CURE) in Hong Kong universities for healthcare-related professional students**

Mabel Yin Chun Yau, Chi-Ping Chan, Kui-Ming Chan, Barbara Tam, Chi-Ming Wong

(P) **The challenge of unprepared students in inverted classroom teaching scenarios**

Anja Pfennig

(P) **Rethinking language teaching for engineering students**

Julia Salzinger

(P) **Back to the Basics: Balancing Technology and Traditional Teaching Methods in Higher Education Classrooms**

Jessica Byers, Clark Callahan

18 (P) **The impact of using formative assessment in introductory programming on teaching and learning**

Jagadeeswaran Thangaraj, Monica Ward, Fiona O'Riordan

(P) **Where to go and why? Motivational factors in the choice of higher education institutions: the example of a university in Central Eastern Europe**

Adrienn Dernóczy-Polyák, Veronika Keller

(P) **Evaluation and Remediation Opportunities for High School Mathematics Knowledge Among Students Entering a Technical University**

Dagmar Dlouha, Lukas Pospisil, Karolina Dlouha, Magdalena Dlouha

(P) **Exploring the collocation database CCDB in the LSP classroom**

Katrin Herget

(P) **GLOBE Tabletop – Capability Development through Pre-Exercise Learning for Humanitarian Missions**

Markus Bresinsky, Anna Vorderwestner, Elena Sünderhauf

(P) **Implementation of a teaching initiation project in public health and its relevance to medical training**

Ana Carolina Alvares Lavigne de Lemos Tavares, Vanessa Barreiros Gonçalves, Kayo Resende Dias e Almeida, Guilherme Pereira Ramos

(P) **Envisioning AI-powered Learning Stemming from Piloted Personalized Education**

Raluca Gera, Mark Reith



## Session 3a. Artificial Intelligence in Higher Education I

Wednesday 19, 16:45 – 18:00. Room 1. Chair: Aidan Duane

(F) **The use of ChatGPT in Chemistry: the bibliometric análisis**  
Custódia Fonseca

(F) **From Users to Allies: Exploring Educator and Generative AI Roles in Shaping the Future of Higher Education**

Aurelio Ravarini, Alice Canavesi, Katia Passerini

(S) **Readiness of the Student Community for Using Artificial Intelligence in Higher Education**

María del Pilar García-Chitiva, Danilo Valdes-Ramirez, Genaro Zavala, Patricia Vázquez-Villegas

## Session 3b. Inclusion and Diversity in Higher Education

Wednesday 19, 16:45 – 18:00. Room 2. Chair: Birgit Hawelka

(F) **Using Universal Design for Learning to Increase the Accessibility of Tertiary Education**

Therese M Cumming

(F) **Strategies for Inclusive Learning: A Marketing Faculty's Journey with Students with Intellectual and Developmental Disabilities**

Ana Estima, Ana Carolina Carvalho

(F) **At Least a Rainbow Flag: Queer Students' Perceptions of University Responses to Queerphobic Terrorist Attack**

Mária Čujdíková, Xenia Daniela Poslon, Viktor Kocur

## Session 3c. Teacher training II

Wednesday 19, 16:45 – 18:00. Room 3. Chair: Hye Pae

(F) **Using UX Design in inclusive teacher education in higher education to bridge the research-to-practice gap**

Ines Oldenburg, Clemens Hillenbrand

(F) **Deaf Signing Students in Higher Education: the benefits of a congregated programme for deaf students in teacher education**

Elizabeth S. Mathews, Ann Marie Farrell, Lorraine Ní Gháirbhith

(F) **An Approach to the reality of Health, Safety, and Risk Prevention Training of future Early Childhood Education Teachers as Undergraduates at University Faculties of Education in Spain, as well as their perceptions on the subject. Part 2**

Begoña Abecia, José Luis Bernal, Begoña Martínez-Jarreta

## THURSDAY 20

(F) FULL PAPERS: 20 MIN PRESENTATION PLUS 5 MIN Q&A

(S) SHORT PAPERS: 10 MIN PRESENTATION PLUS 5 MIN Q&A

(P) POSTERS

### Session 4a. Active Learning

Thursday 20, 09:00 – 10:30. Room 1. Chair: Frederic Marimon Viadiu

(F) Alternative gamification approaches in engineering education

Ernest Bernat-Maso

(F) Challenge-Based Learning in Higher Education: Master's Degree in Logistics and Productive Operations Management from Mondragón University

José Alberto Eguren, Eneritz Urizar, Leire Gorroño, Myriam Soto, Nerea Zenigaonaindia et al.

(F) Problem-based, research-led learning for our times: The case of Vertically Integrated Projects in higher education

Oonagh Meade, Michelle Millar, Tony Hall, Connie O'Regan, Denis O'Hora

(S) Learning Format Innovation – A Conceptual Framework

Guenther Botschen, Christian Reinhardt

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### Session 4b. Competences and Skills I

Thursday 20, 09:00 – 10:30. Room 2. Chair: Marian Hurley

(F) Impact of Reflection on Individual and Team Performance in student team projects

Anja Pfennig, Juliane Siegeris

(S) Teaching Medical Humanities to medical students: implementing an integrated approach

Francesca Tusoni, Annalisa Iagnemma, Alessandro Franceschini, Vincenza Ferrara et al.

(S) Themes addressed in undergraduate theses and trends in Human Resources. Implications for last year students of a School of Management

Ana María Beingolea, Monica Bonifaz Chirinos, Elizabeth Chris Aylas Flórez

### Session 4c. Economics, Finance and Business Education

Thursday 20, 09:00 – 10:30. Room 3. Chair: Dimitri Prandner

(F) A review of Financial Education Implementation in Higher Education

Melany Lotter, Chioma Okoro

(F) Unleashing the Power of Social Entrepreneurship Education in Cultivating Spiritual Capital: Insights from the SEnSE Program in Hong Kong

Sze Hei Tse

(S) Course innovation in business higher education – A case study of a BA Commerce and Marketing course

Szandra Gombos, Attila Kurucz



(S) **The effect of business students' maladaptive decision-making strategies on entrepreneurial intention**

Laila Cekule, Andrejs Cekuls, Margarita Dunska

## **Session 4d. Emerging Educational Technology II**

Thursday 20, 09:00 – 10:30. Room 4. Chair: Antonio Miguel Nogués Pedregal

(F) **Reimagining Higher Education Post-Pandemic: A Mobile Robotic Telepresence Case Study in the United States**

M. Elizabeth Azukas, Maria Francois

(F) **Revolutionizing Flipped Learning with ChatGPT: A Strategic Framework for Enhanced Educational Engagement**

Thomas Newham, Peter Williams, Alastair Town

(F) **Postgraduate Supervision in a ChatGPT World: What's Next?**

Angela Wright

(S) **A Novel National Master's in Digital Health Transformation: driving cohesive systemic digital change**

Martin Curley, Annette McElligott

## **Session 5a. Enhancing Academic Development & Well-being**

Thursday 20, 11:00 – 12:00. Room 1. Chair: Dieter Pawelczak

(F) **Interactive videos: its effect on cognitive load and students' preferences across modes**

Corlia Joynt

(S) **Demonstrated Value of Individual Development Plans to Participating Academic Trainees and Their Mentors**

Barbara C Bruno, Hope A. Ishii, Caroline E. Caplan, Abhay Vidwans, Jeffrey J. Gillis Davis

(S) **Trying to keep in touch with Nature during the COVID-19 pandemic: an experience from the University of Trento**

Maria Giulia Cantiani

## **Session 5b. Health and Medical Education II**

Thursday 20, 11:00 – 12:00. Room 2. Chair: Domenico Brunetto

(F) **The Potential of Using Social Service Robots in the Healthcare Environment**

Janika Leoste, Kristel Marmor, Katrin Kangur, Fuad Budagov, Matti Rossi

(F) **Enhancing pediatric and neonatal CPR competency through clinical simulation: An educational innovation approach**

Pedro García Martínez, Pablo Buck Sainz-Rozas, Pablo García Molina, Laura Pla Marzo, Ines Aguirre Sanz, Juan Gómez Salgado, Evelin Balaguer López

## Session 5c. Multidisciplinary educative strategies

Thursday 20, 11:00 – 12:00. Room 3. Chair: Julia Schwarzkopf

(F) **A Centralized Course e-Portfolio Repository for Fostering Continuous Improvement and Strengthening Teaching Community of Practice in Higher Education**  
Walid Ibrahim, Hoda Amer

(F) **(Re-)Discovering the treasure within – The contribution of a Design Your Life Module to Undergraduate Education**  
Tony Hall, Michelle Millar, Connie O'Regan

## Session 5d. Sponsored talk

Thursday 20, 11:00 – 12:00. Room 4.

**Enhancing Mathematics Education with Generative AI: Insights from SOWISO's AI Chatbot**

Luís Pires

## Session 6a. Evaluation, Feedback & Assessment II

Thursday 20, 14:30 – 16:00. Room 1. Chair: Kirsty Emery

(F) **Case-based work with classroom cartoon vignettes as a way to explore pre-service mathematics teachers' multi-criterion noticing**  
Sebastian Kuntze, Katrin Schall, Jens Krummenauer

(F) **Remote Assessment in Higher Education: Insights from Southern Europe**  
Frederic Marimon, Marta Mas-Machuca, Anna Akhmedova

(F) **Academic Integrity differences across faculties: A student survey**  
Diarmuid Grimes, Marian Hurley, Violeta Morari, Jim M O'Mahony

(S) **Designing Authentic Assessment to Improve Academic Integrity**  
Sharon Lehane, Angela Wright

## Session 6b. Competences and Skills II

Thursday 20, 14:30 – 16:00. Room 2. Chair: Elizabeth Aylas

(F) **Empowering Undergraduates: An Examination of Online Self-Regulated Learning Skills in Higher Education**

F. Sehkar Fayda-Kinik

(F) **The contribution of digital technology training to the digital competency gap. A case study from Austria**

Manuela Gruenangerl, Dimitri Prandner

(F) **Competency development in higher education: Crafting the future self as a driver for change**

Sara Bonesso, Laura Cortellazzo, Fabrizio Gerli, Giulia Milani

(S) **Connecting Hand and Mind: Fostering student creativity and confidence through makerspace projects**

Ali Sakkal, Elizabeth Harlan



## Session 6c. Artificial Intelligence in Higher Education II

Thursday 20, 14:30 – 16:00. Room 3. Chair: Sven Wippermann

(F) **Exploring the Efficacy of ChatGPT in Adapting Reading Materials for Undergraduate Students**

Larysa Nikolayeva

(F) **Bridling, Taming and Riding the AI Beast**

Jennifer A. Despain

(S) **Are You AI Ready? Investigating AI Tools in Higher Education via the Co-development of Interdisciplinary Student-Partnered AI Training Resources**

Orla Daly, Liam Fogarty, Eileen Furlong, Ernesto Vasquez del Aguila, Rachel Farrell et al.

(S) **Beyond the Machine: Human-AI Collaboration in Jewelry Design**

Beatrice Rossato, Livia Tenuta, Susanna Testa, Alba Cappellieri

## Session 6d. Innovative Learning & Teaching Experiences II

Thursday 20, 14:30 – 16:00. Room 4. Chair: Robert Phillips

(F) **Fostering Critical Thinking and Different Perspective Taking in Sustainability Management Education through Role-Play and a Cross-Semester Case Study**

Marlene Zeitler, Julia Schwarzkopf

(F) **User Designed Inquiry: An effort to reconceptualize teaching and learning at a US university**

William Gaudelli

(F) **Time management and absenteeism: studying the students through machine learning**

Santiago Porras, Athénaïs Sauvée, Julio César Puche, Silvia Casado, Paula Antón, Joaquín Antonio Pacheco

(S) **Project for the introduction of a materials library within a conventional library of a university degree in architecture**

Joan-Lluís Zamora i Mestre

## Poster Session 2

Thursday 20, 16:00 – 16:45

(P) **YouareImportant Project: One Experiential Learning in Mindfulness in the Educational Context**

Vanda Varela Pedrosa, Francisco Javier Barrantes, Cezarina Maurício, Ana Querido

(P) **A Roadbook for the Professionalization of Project-based Learning Courses**

Holger Günzel, Lars Brehm

(P) **Impact of an Undergraduate Level Course on Student Perception of Ageism: Evidence From the Analyses of Student Post-Course Reflections**

Afeez A. Hazzan, Jason Dauenhauer, Pamela Beach

(P) **Mentors' identity approaches of pre-service teachers**

Consuelo Garcia, Antoni Badia

(P) **Enhancing Higher Education Recruitment and Retention through Considering the Employee Voice**

Gareth Morris, Jinting Ye

(P) **Employment Motivation and Job Satisfaction in Transnational Higher Education: A School Level Case Study**

Gareth Morris

(P) **Classroom Goes Future: Promoting Essential Skills of Teacher Training Students**

Laura Greulich, Sarah Bischof

(P) **How students use learning opportunities in a first-year, Electrical Systems unit**

Cesar Ortega-Sanchez

(P) **Peer Pastoral Support: Working with Doctoral Students to Co-Create a Supportive Postgraduate Researcher Environment**

Laura Leonardo, Harriet Anne Palin, Zack Jacob Gray, Chang Liu

(P) **First-year higher education student environmental literacy – the Algarve University case**

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Clarice Campos, Jacinta Fernandes, Gabriela Gonçalves, Cátia Sousa, Hélder Spínola

(P) **Promoting Efficiency in Education: The Cost-Aware Curriculum Model An Efficient and Purposeful Approach to Curriculum Design**

Lore Demedts, Goele Soogen, Helena Brusselle, Dries Vanacker, Hilde Van Puyenbroeck, Nadia Vanderstraeten

(P) **People with disabilities in the university-work transition: a project to study networks**

Francesca Giannoccolo

(P) **Supporting the design of sustainability-related higher education: Pedagogical method mixes and their effectiveness drivers**

Silke Bustamante, Martina Martinovic, Kai Shaman

## Session 7a. STEM Education I

Thursday 20, 16:45 – 18:00. Room 1. Chair: Axel Böttcher

(F) **Elementary Pre-service Teacher's Perceptions of STEM-Integration in the Classroom: An Experiential Approach in a Mathematics Methods Course**

Jair J. Aguilar, Seokmin Kang

(F) **The secondary-tertiary transition in mathematics: insight through personal journals in a math class**

Giulia Bernardi, Domenico Brunetto, Gaia Turconi

(S) **Investigating the Variables Impacting the Research Interest Among Undergraduate Students in STEM Fields**

Zubair Ahmad, Ehsan Raza, Mohammad Ammar, Nitha Siby, Noora J. Al-Thani, Almaas Sultana





## Session 7b. Research in Higher Education

Thursday 20, 16:45 – 18:00. Room 2. Chair: Barbara Mazza

(F) **A Taste of Research: Preliminary Insights from an Undergraduate Research Training Cadetship Project in a Western Australian University Offering Experiences Outside the Classroom**

Caitlin Fox-Harding, Kristina Kendall, Tenielle Porter, Brianna Fleay, Shelley Beatty, Ruth Wallace

(F) **Continuing Digital Higher Education Teaching in the post COVID-19 Era: A Qualitative Survey on Success Factors**

Nicole Draxler-Weber, Fynn-Hendrik Paul, Uwe Hoppe

(S) **What makes University Networks work? Exploring Success Factors and Development Needs**

Philipp Pohlenz

## Session 7c. Sustainability

Thursday 20, 16:45 – 18:00. Room 3. Chair: Olga Ovtšarenko

(F) **Bridging Disciplines in Higher Education: The Convergence of AI and Sustainability**

Benedikt Zönnchen, Charlotte Böhm, Gudrun Socher

(S) **Applying Design Thinking to Support Education for Sustainable Development in Higher Education**

Iris Schmidberger, Sven Wippermann

(S) **Co-creating an SDG focused micro-credential**

John Scahill, Frances O'Donnell, Ciaran Comerford, Carmel Heaney

## Session 7d. e-learning

Thursday 20, 16:45 – 18:00. Room 4. Chair: Mary Azukas

(F) **Different Implementation Variants of the Synchronous Hybrid Setting in Continuing Education**

Anne Jansen, Timna Rother

(F) **University students' attitude, satisfaction, and future preference of online learning: Empirical evidence from an emerging country**

Youssef Chetoui, Hind Lebdaoui, Rhizlane Hammoud, Imane Cherif

(S) **Changing character of e-learning trajectories at a Ukrainian University: swimming against the tide**

Svitlana Anatoliivna Kuzmina, David V Powell, Olha Vasylivna Matviienko, Tamara Voodymyrivna Glazunova, Sue Fan Foo, Alla Pavlivna Lisnychenko

## FRIDAY 21

(F) FULL PAPERS: 20 MIN PRESENTATION PLUS 5 MIN Q&A

(S) SHORT PAPERS: 10 MIN PRESENTATION PLUS 5 MIN Q&A

(P) POSTERS

### Session 8a. Management of Higher Education

Friday 21, 09:00 – 10:30. Room 1. Chair: Sandra Pia Harmer

(F) Strategies to reduce dropout in higher education

Orlanda Tavares, Cristina Sin, Maria João Antunes

(F) Information Accessibility and Decision-Making in Career Selection: An Examination of Influential Sources for University Students

Veronika Keller, Adrienn Dernóczy-Polyák

(S) The Third Mission in Chilean Universities: An analysis from the perspective of its academics

Mario Alarcón, José Joaquín Brunner

(S) The influence of rankings on business school students' perception and satisfaction. An exploratory study

Nino Tandilashvili, Marina Tabatadze, Anna Tandilashvili

### Session 8b. Innovative Learning & Teaching Experiences III

Friday 21, 09:00 – 10:30. Room 2. Chair: William Gaudelli

(F) Computational Chemistry in Graduation Courses of Chemistry

Sergio P.J. Rodrigues, Pedro J.S.B. Caridade

(F) Using gamification to promote financial literacy and consumer education among future generations

Ana Estima, Cristina Peguinho

(F) The 'backwash' effect: Prioritising assessment to support student engagement and 'deep' levels of learning

Claire Griffin

(S) Case study for teaching Tropical Ecology

Ernesto Rodríguez Luna, Erika Yurizan Hernández Dávila, Lilia Ruiz Ruiz



## Session 8c. Innovative Learning & Teaching Experiences IV

Friday 21, 09:00 – 10:30. Room 3. Chair: Iris Schmidberger

(F) **Assessing the Impact of the ‘SkillSense for Assessment Mastery (SSAM) Programme©’ on Level 4 Higher Education Students: A Study on Assessment Initiatives**

Joanne McDowell

(F) **A human-centred design approach to student success in a first-year high impact module**

Salome Human-Vogel, Annelize du Plessis

(F) **The Quid Sapienza model: methods, tools and quality in the innovation of university teaching 4.0**

Barbara Mazza, Elena Valentini

## Poster Session 3

Friday 21, 10:30 – 11:15.

(P) **Collaborative Learning Approach: a Safety Huddle**

Vanda Varela Pedrosa, Inês Sousa Lopes, Cristina Costeira

(P) **Spokespersons to explain the world: analysis of their relevance, competences and instruction**

Jordi Serra Simón, Mònica Puntí Brun, Sílvia Espinosa Mirabet, Margaryta Netreba

(P) **Navigating Digital University: Challenges and Opportunities for Transforming Higher Education Institutions**

Roksana Ulatowska

(P) **Mapping OER movements in the field of mathematics**

Elena Safiulina, Oksana Labanova, Anne Uukkivi, Anna Šeletska, Carles Serrat, M. Montserrat Bruguera, M. Rosa Estela, Xavier Marcote, Jordi Guàrdia, Ana Paula Lopes, Filomena Soares, Selver Softic, Yevheniia Andriichenko, Eva Schirgi, Vlad Bocanet, Florina Serdean

(P) **Human-Empathy Accessibility Learning (HEAL) intervention model towards critical soft skills development for career readiness among computing undergraduate students**

Jami Lynn Cotler, Eszter Kiss, Dmitry Burshteyn, Eben Afrifa-Yamoah

(P) **Integration of emerging technologies within higher education: design and management of Laboratories exploring VR technology**

Marco Denni, Paolo Marengi, Susanna Sancassani

(P) **How to Promote Socially and Emotionally Responsible Language Learning and Teaching in European Teacher Education**

Gustav Arnold, Edina Krompák, Patricia Schubiger

(P) **Escape the classroom: a game to improve learning and student engagement**

Maria Psyllou

(P) Principle-Focused Evaluation for STEM Persistence

Mary Engels, Sonja Kirsten LaPaglia

(P) Rethinking architectural education to foster Sustainability: Literature Review of emerging trends and pedagogical approaches

Khansa Dhaouadi, Pierre Leclercq

(P) Automatic code assessment in Robotics higher education courses

Lía García-Pérez, David Roldán, José M. Cañas

(P) Using ChatGPT for Creating Computer Science Exercises – a Case Study from the Real World

Antje Neve, Dieter Pawelczak

(P) University Online Module Structure Design: Consistency or Individuality?

Nataliya Romanyatova, Paul O'Leary

(P) The impact of extrinsic pressure on the entrepreneurial intention of business students

Laila Cekule, Andrejs Cekuls, Margarita Dunska

(P) Applying the Photovoice methodology to the resolution of numerical modeling problems

Arnau Bayón, Mar Ortega-Reig

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## Session 9a. Employability

Friday 21, 11:15 – 12:30. Room 1. Chair: Nino Tandilashvili

(F) An investigation of the antecedents of entrepreneurial mindset and intention among university students: An emerging market study

Hajar Chetioui, Hind Lebdaoui, Imane Laajil

(F) The role of career services in sustaining students' perceived employability: a quasi-experimental approach

Miriam Tomasuolo, Mattia Martini, Elisabetta Marafioti

(S) Boosting students' employability skills via transnational online collaboration project: Findings from a qualitative study

Rita Koris, Małgorzata Marchewka, Tatiana Alekseeva, Zsuzsanna Palmer



## Session 9b. Internationalization

Friday 21, 11:15 – 12:30. Room 2. Chair: Nataliya Romanyatova

(F) **Broad horizons of international cooperation to ensure sustainable and innovative learning**

Olga Ovtšarenko, Daiva Makuteniene, Andrius Čeponis

(S) **Phonological Awareness of Novel Phonemes and English-Language Reading Comprehension in EFL University Students**

Arifi N. Waked, Minnah Yassin, Reem Ahmad, Maura Piloti

(S) **Invisible Intersections: Cultural and Disciplinary Diversity Among Faculty in the International Classroom**

Anne Kustritz, Anastasia Hacopian

(S) **Integration of Practice-Related Empirical Research Projects in International Postgraduate Studies: A Case of the Master Program in Development Management**

Anne Siebert, Henrike Roth

## Session 9c. Embracing Educational Transformation

Friday 21, 11:15 – 12:30. Room 3

Chair: Joan Lluís Zamora Mestre

(F) **Harnessing the Power of cutting-edge technologies in Flipped Learning: A Paradigm Shift in University Education after post-COVID-19 era**

Chi-Ming Wong, Laura Zhou, Mitesh Patel, Mag Xu, Yuk-Ming Tang

(F) **Practicing Abstraction through a Top-Down Problem-Solving Framework in a CS1 Course**

Géraldine Brieven, Benoit Donnet

## Session 9d. STEM Education II

Friday 21, 11:15 – 12:30. Room 4. Chair: Daniela Zehetmeier

(F) **Identifying Potential for Improvement in Computer Science Degree Programs from the Student Perspective**

Axel Böttcher, Veronika Thurner, Sabine Hammer

(S) **Recent Advances in VR Labs for Use in STEM Education**

Samrendra Roy, Daeho Chang, Graham Stocksdales, Manmitha Gunasekera, Rizwan-uddin

(S) **ChatPLT: An intelligent tutoring system for teaching Physics in Higher Education**

Abel Naya-Forcano, Miguel Garcia-Bosque, Esther Cascarosa, Francisco Aznar, Carlos Sánchez-Azqueta, Santiago Celma, Concepción Aldea

(S) **A “cost-effective” approach for the photoelectric effect experiment**

Francesco Nozzoli, Paolo Caresia, Giovanni Lombardi

## SOCIAL PROGRAM

### Wednesday 19, 19:30 - 21:00



Welcome Cocktail Reception at the Only YOU Hotel, City Lover Room.  
Address: Plaça de Rodrigo Botet, 5, 46002 València

Dress code: Smart Casual.



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### Thursday 20, 21:00 - 24:00



Conference Dinner at the Veles e Vents building  
Address: Veles e Vents building, 3rd Floor, La Marina de València

Dress code: Smart Casual.



### Friday 21, 14:00 - 15:00



Closing farewell wine at the Faculty Hall, UPV.



# ADDITIONAL INFORMATION

Lunch will be served on Wednesday and Thursday from 13:00 to 14:30 at “Cafetería El Trinquet” (Building 9D), located behind the Faculty of Business and Management.

Coffee breaks are served at the Faculty Hall:

- Morning 10:30 - 11:00 (from Wednesday to Friday)
- Afternoon 16:00 - 16:30 (during the Poster sessions)

Free WIFI access is provided for delegates at the conference. Participants will have access to a meeting room (Seminario 0.1) in the ground floor of the Faculty building.



**Building 9D**  
Cafeteria El Trinquet

**Building 7I**  
Faculty of Business Administration and Management  
Conference Hall: Salón de actos. 2nd floor  
Faculty Hall: Main entrance. Ground floor  
Rooms: Aula 0.1, Aula 0.2, Aula 0.3, Aula 0.4



10<sup>th</sup> International Conference  
on Higher Education Advances

PROCEEDINGS



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