



HEAd '21  
June 22-23, 2021  
Valencia, Spain




# Teaching innovation: trends, challenges and opportunities ahead

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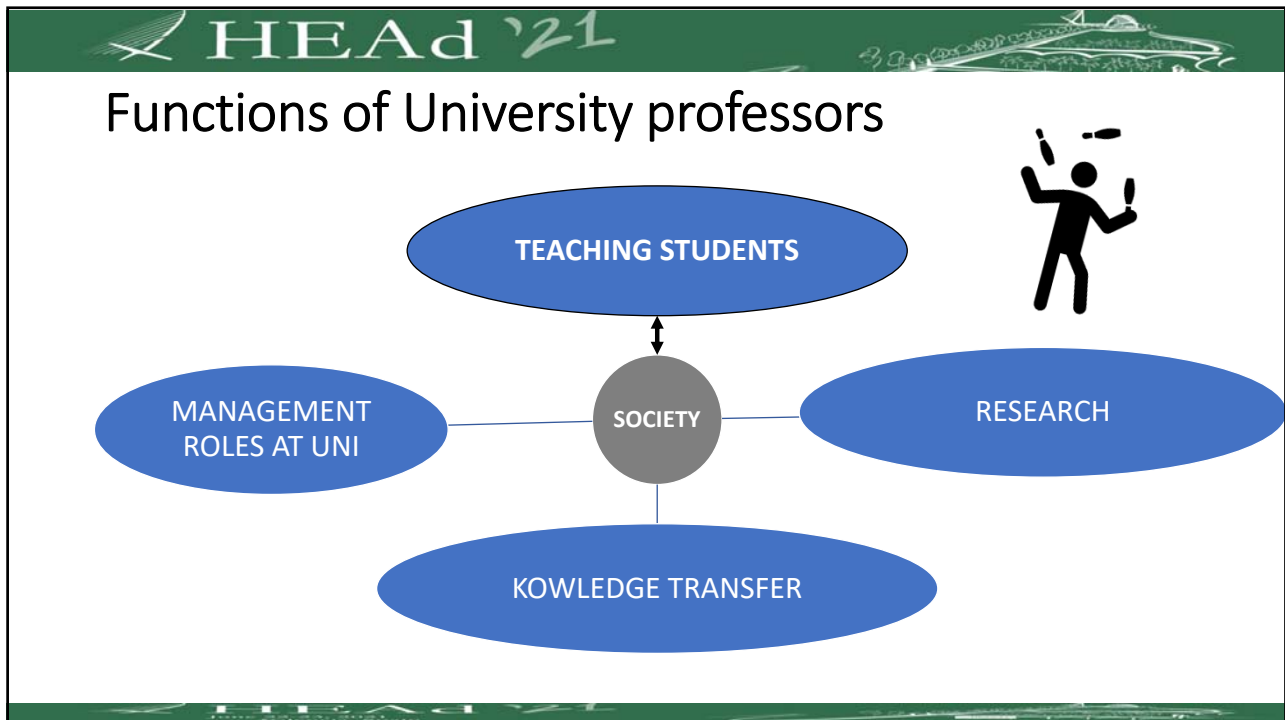
## Personal background

- PI of innovation projects in Annual Reports
- Member of innovation projects:
  - in the field of EMI, sustainability...
  - with a multidisciplinary approach
  - teaching techniques
  - with members from foreign universities
- Reviewer of projects for education
- Reviewer of papers for journals in the field of HEI
- Just received an award for my teaching at the UV

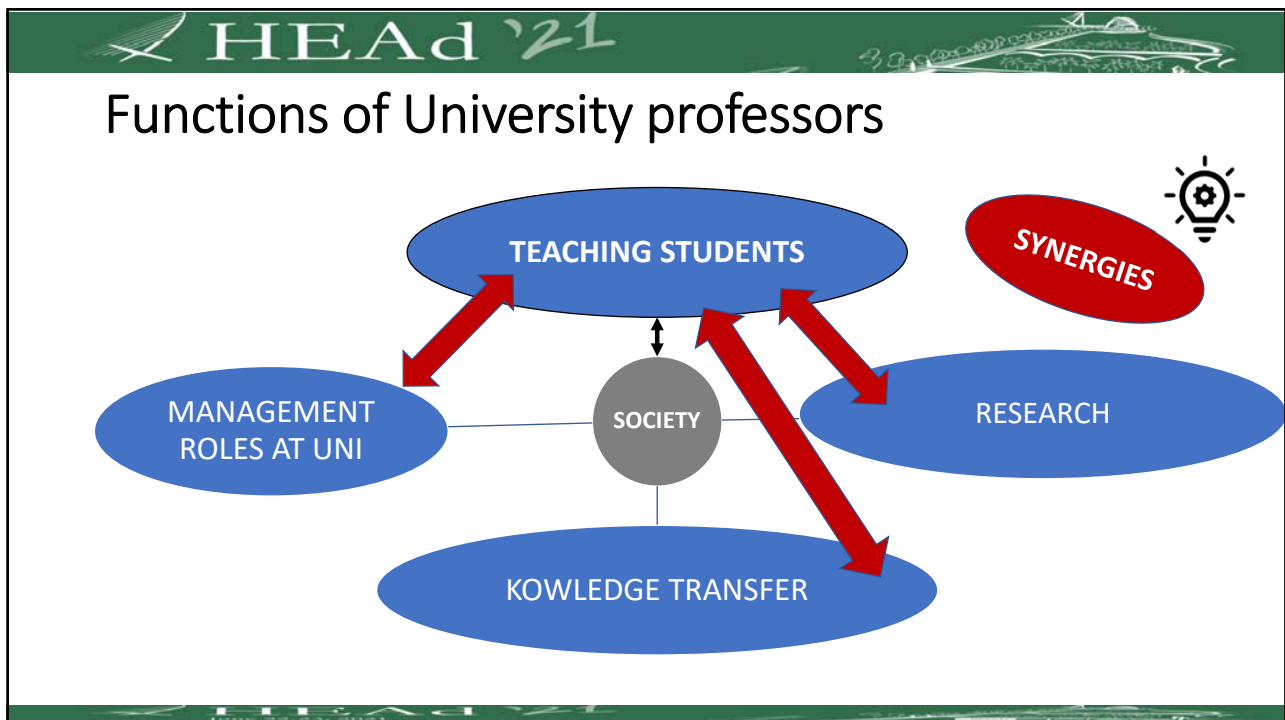


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## University students

- Millenials and technology
- Changing world → key is on competences → useful for LLL
- Different learning profiles
- Critical thinking and constructive criticism
- Active participation in the classroom

Knowledge  
Skills  
Attitudes and values

Positive learning environment

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Passion

Connection with real-life

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## Trends in teaching innovation

- Project-Based Learning
- Experiential learning
- Collaborative-learning
- Flipped-classroom
- Teaching pills
- Gamification: kahoot and the like, proper simulation games (as in business)
- Role-playing, psychodrama
- Innovations in assessment (by peers, vol/comp, ...)
- Other: mind-maps, 5'questions, glossaries, online tests, movies/songs/poems+ follow-up activities, teacher observation...



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## Challenges



- COVID-19 → Hybrid teaching contexts, with overnight changes due to the pandemic, more flexible approach and need of a growing materials' portfolio...
- Gamification: if students get to much of it can get boring...
- Impact on assessment, Assessment quality and Academic level
- Links with our own research → pressure for publication in academic career development
- Being "different" → blended approach

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## Opportunities (I)

- Emerging topics: COVID-19, UN SDG and sustainability in education
- Growing number of publication outlets in the field of HEI Education (broad scope and discipline scope), or even in discipline specific journals there seems to be an increasing interest in education papers.
- EU proposals and projects in education



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## Opportunities (II)

- More and more interest in teaching by society
  - By unis: excellence teaching awards, recognition of teaching quality, in Spain ANECA announced in 2020 to work in a SEXENIO DOCENTE to be introduced in 2021 (DOCENTIA)...
  - By society at large: more and more organisations devote resources to collaborations with unis and their teaching opportunities (private, e.g. AECA, ASEPUC, IASB, EFRAG, even regulators and standard-setters, industrial companies, NGO...), even giving education excellence awards (EAA)
  - PhD Thesis and Bachelor thesis as well as students' internships can provide you with the chance to make contacts to enrich your classes or give you the chance to look into innovation possibilities for your teaching.



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## Food for thought (I)

- Gender or diversity differences in engagement/performance in exams/motivation/overconfidence...
- Input for your views on debates (class-attendance, competences achieved, types of exams, assessment points for activities, etc...)



- Need to create teaching networks
- Importance of multidisciplinary approach and transversal orientation for some projects

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## Food for thought (II)

- Get the balance right: effort and award for participating students
- Have a broad view of the subject and the effort taken in order to design the assessment methodology
- Be open-minded and take into account students' suggestions for improvement.
- Never give up if one day the outcome is not as good as expected. This is a long-distance race. Be creative and self-confident.



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## Suggestions (I)



- Take courses on “innovative techniques” to gain new ideas and compare with your peers how you apply these methodologies in different disciplines → Motivating for you
- Read papers on the new methodologies you are applying to try and explore whether you can also exploit your experience in research
- Teamwork→ Apply for funded projects with a network of your colleagues so that you can help each other towards the real application in the classroom and also towards the publication of research
- Give seminars/courses to share your ideas and inspire others



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## Suggestions (II)

- Take courses on new/different “statistical techniques and methodologies” so that you can use them in your papers on your own learning experiences.



- Present your education papers in different fora to gain richer feedback depending on their different audiences.
- Submit your papers on teaching experiences to publications with the right scope-... and adapt to it if needed.




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## In your teaching innovation papers- remember to...

- Theory
  - Ausubel's theory of meaningful learning and Bloom's taxonomy
  - Achievement goal theory
  - Social Cognitive Career Theory SCCT, Cognitive Load Theory
  - EMI
  - Kohlberg's theory of moral development
  - Conceptual metaphor theory
  - ...
- Debate
  - Class-attendance
  - SDG
  - Curriculum design/ Weighting for the exam
  - Competences, Mobility,
  - ...




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## In your teaching papers- be creative...

- Data from
  - Survey for student profile (age, gender, HEI entry mark, parents' education level...) and survey on student variables of interest (motivation, ethical attitude, sustainability concern, career choice, achievement goals...). Use preferably Likert-scales.
  - Data from your own data gathering process: attendance, activity mark, , exam mark...
- Methodologies
  - Traditional methods: Correlations, OLS regressions, logit...
  - Delphy studies with panel experts- e.g. on shifts in teaching methods and curricula construction
  - PLS
  - Granger
  - Fuzzy ...



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## Final reflections...



- University teaching should be inspiring, challenging, innovative and creative. Academics should promote knowledge, help skill-generation, attitudes and values (→ competence) and also transform the way students act and see the world.
- University teaching should foster positive and motivating student experiences towards professionalization while academic research directly impacts the way we teach and can help us improve both in what and how we teach.

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Thank you for your  
attention.  
Any questions/comments?

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