RESEARCH ARTICLE

Pedagogy of Success: Perception in undergraduate and postgraduate students at a Peruvian university [version 1; peer review: 3 approved]

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Abstract

Background: The study's objective was to compare whether there are differences in the perception of undergraduate and postgraduate students about the pedagogy of success.

Methods: This is non-experimental research with a comparative descriptive design, and a hypothetical deductive method was used. The perception of success pedagogy questionnaire was applied as a data collection technique with a sample of 50 university students with 23 items based on three dimensions: opportunity to learn (nine items), feedback (eight items), and consideration of the person (six items), with the following qualitative value scale, always = high, sometimes = middle, and never = low; the scale of quantitative value was from two to zero. To find the instrument's validity, it was subjected to expert judgment, calculating the content validity ratio for each item and considering the criteria of clarity and relevance. The instrument's reliability was determined using Cronbach's alpha, which found a high consistency between the items. For the questionnaire application, Google Forms was used to obtain fast, timely, and reliable answers. The data were processed through the SPSS V. 25.

Results: The pedagogical support of the postgraduate teacher is more effective than that of the undergraduate. The undergraduate teacher stands out for listening and being more empathic. Didactics is crucial for students to develop their cognitive and human potential. Academic success is related to the teacher's pedagogical skills and the student's motivation. In addition, teachers and students can develop cognitive skills through effective communication and socialization. Finally, the affective dimension allows students to achieve personal
and professional goals.
Conclusions: There are significant differences in the perception of
the pedagogy of success among undergraduate
and postgraduate university students; therefore, the application of
this methodology is more promoted
towards postgraduate students than to their undergraduate peers.

Keywords
Pedagogy; Success; Perception; Undergraduate; Postgraduate;
Affectivity

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Introduction
An essential part of the purpose of university education is ensuring that students can know how to be, know how to know, and learn how to do. Teachers must generate improved didactics in their pedagogical work, allowing students to develop these educational competencies. Theoretically, this study is based on Juan Amos Comenius’ research on pedagogy. Comenius argued that pedagogy is a science with a strict educational purpose that integrates educational materials to achieve quality teaching that impacts the person and the surrounding society. He also argued that academic success was guaranteed from horizontal and effective communication with his students, allowing them to develop their potential cognitive abilities, interrelate, collaborate and interconnect.

The pedagogy of success is based on didactic strategies that motivate the learner to manage their learning, promoting; respect for diversity, empathy, harmonious coexistence, and the use of ICT to avoid failure or the feeling of academic loss. For this, teachers trained in emotional intelligence issues (motivation, self-regulation, self-knowledge, empathy, and social skills) are needed. In conclusion, educators must be capable of forming tolerant, respectful, democratic, caring, and competent citizens that can perform professionally in a complex and changing world.

In the pedagogical task, educators focus on achieving two basic pedagogical principles. The first principle is based on providing a supportive environment where the learners can get involved; the second is based on developing practical classroom activities. In this regard, the following aspects are systematized:

- a) Errors resulting from experimentation are a part of learning. Therefore, the teacher must assist the student in overcoming mistakes.
- b) Outstanding achievements are reinforced to improve the student's self-esteem and motivate them to continue learning.
- c) Importance should be given to general activities without preventing the learner from excelling in specific activities.
- d) Self-correction helps the learner to be critical of their work and to be independent.
- e) The teacher must address competitiveness as a central point of the training process and generate a collaborative work environment where they share their successes.
- f) Parents, teachers, tutors, classmates, and socio-cultural space, intervene in the formative process of the student.
- g) The educational content that the teacher develops with their students must be attractive and, at the same time, reflect the socio-cultural reality of the student.
- h) Students actively participate in the learning process to achieve their goals.
- i) Classroom activities must involve everyone without neglecting the rhythm and learning style of each person.
- j) Work must be evaluated on an individual basis, and evaluation techniques must be adapted with the learning objectives.

Learning allows students to discover their passions and goals. The teacher accompanies the students in this process of discovery and encourages them to build their future using the knowledge gained and applying it to current societal problems. Thus, successful teaching is correlated with the quality of teacher training. Teaching is a real challenge, especially when teachers do not have the required skills to implement change.

Literature review
Rompelmann (2002) proposes three components to strengthen the pedagogy of success: 1) opportunity for response, 2) feedback, and 3) consideration for the person. The first component considers equity in the opportunity to respond, individual support for the student, latency, deepening, and high expectations in reasoning. The second involves evaluating, correcting, praising, providing reasons for the recognition, and active listening. The latter includes proximity, courtesy, respect, a caring approach, and limits to behavior. The correlational and multiple regression analysis developed by Ali Roohani and Shahrzad Haghparast (2020) showed a significant and positive relationship between critical pedagogy and teachers’ reflective thinking. Both variables were predictors of pedagogical success from the evaluation of the students. The research by Galbán Lozano and Ortega Barba (2021) highlights that a fundamental quality of the teacher is the vocation for teaching and the confidence and concern that they demonstrate for the student's academic development. The study also points out that students feel satisfied and identify better with those teachers who, without neglecting the theoretical-practical link, promote environments for active learning.

University teachers, above all, must be specialists in their subject area. They must also be motivated to develop teaching and scientific research with enthusiasm, interest, and vocation and show tolerance, empathy, justice, openness, creativity, flexibility, availability, and curiosity in otherness. They must possess social skills for effective communication and management of difficult emotions. Organization and effective structuring of knowledge is also crucial, along with short and long-term planning and promoting independent and critical thinking. They should demonstrate an acute and reflective attitude about their performance and be innovative and adaptable.

The student’s journey is characterized by their cognitive and motivational development and the challenges of university life. Faced with this, the educator needs the pedagogical tools to accompany them in complex issues such as lack of
motivation, communication problems, stress management, teamwork deficiencies, and accepting change. The student needs an approach to the modern educational reality to understand, reflect and merge the acquired knowledge, forming values that promote solidarity, friendship, respect, cooperation, and joint creation as fundamental learning.

The present investigation is justified from a set of theoretical antecedents and epistemological arguments that allow us to understand undergraduate and postgraduate students' perceptions of the teacher's pedagogical development. It presents a design that will enable the results to be interpreted, statistically processed, and replicated in other educational contexts. From the practical point of view, it provides new knowledge and approaches that help the comprehensive professional training of undergraduate and postgraduate students, regardless of their perception. Likewise, it offers pedagogical and personal development reflections relevant to minimizing the difficulties that affect students' desirable academic skills: knowing, doing, and acting, allowing them to align their potential intellectual development with aspirations for success. Overall, this research highlights the relevance of the pedagogy of success in the comprehensive training of teachers and students.

The study's objective was to compare whether there are differences in the perception of undergraduate and postgraduate university students about the pedagogy of success. The general hypothesis holds that there are differences in the perception of success among undergraduate and postgraduate university students.

**Methods**

**Study design**

This study was non-experimental with a comparative descriptive design. The hypothetical-deductive method was used, whereby the variable's dimensions are known through observation, deduction, verification, or factual verification of the facts. The pedagogy of success variable was structured by three dimensions: opportunity to learn, feedback, and consideration of the person. Participants were undergraduate and postgraduate students enrolled at the Universidad Católica de Trujillo, Peru (UCT, Peru).

**Study population**

Students were approached to take part in the study via institutional email and social networks. Those who agreed to participate were then invited to a meeting held via Zoom, in which they were formally invited to the study. All participants were informed about the importance of the study, the anonymous nature of the instrument, and the theoretical, methodological, and practical procedures that would be used to answer the research question. It was also explained that the results of the said study would serve as the basis for developing quality education focused on improving the perception of success of undergraduate and graduate university students at UCT Peru. The population was 50 students: 20 undergraduates, X cycle (fifth year, professional career of Initial Education, Faculty of Humanities, UCT, Peru), and 30 postgraduates, IV cycle (second year, Master of Education Postgraduate School, UCT, Peru); total sample: 100% of the population. The inclusion criteria for participants were: Undergraduate students pursuing the professional career of Initial Education and postgraduate students pursuing a Master of Education. All participants had to be enrolled at UCT, Peru. In the case of undergraduate students, they had to be studying the tenth cycle of studies, and postgraduate students, the second cycle. The sample was non-probabilistic for convenience; it was selected in this way, taking into account restrictions on in-person meetings in the COVID-19 context. All participants were enrolled at UCT, Peru, located on North Panamericana Avenue. 555, Moche 13600, Trujillo, La Libertad, Peru.

We successfully used 100% of the sample data after recruiting all participants in a short space of time and processing the data immediately. All participants gave their informed and signed consent as an essential requirement to participate in the study.

**Data collection**

The data collection technique was a questionnaire. As the study instrument, the Perception of Success Pedagogy questionnaire was administered, which consisted of 23 items distributed in three dimensions: opportunity to learn (nine items), feedback (eight items), and consideration of the person (six items). The qualitative value scale used was: high, middle, and low; likewise, the quantitative value scale was two to zero. To test the general hypothesis, the nonparametric Mann-Whitney U test was used. Due to social distancing, the decision was made to distribute the questionnaire through Google Forms. The reasons for this decision were communicated to the participants through a meeting held on February 25, 2021, via Zoom. This meeting was called and directed by the team of researchers. Subsequently, the questionnaire was sent to all participants through their institutional emails so that they could respond to them within approximately 20 days. The data collection period began March 1, 2021, and ended April 22, 2021.

The data sources were: 1). Enrollment records of undergraduate and postgraduate students, UCT, Peru; cycles X (undergraduate) and IV (graduate). 2). Results of the applied questionnaire. To avoid potential biases, the instrument
was validated. First, pilot testing was carried out, then it was submitted for expert assessment. The instrument's reliability was performed using the Cronbach’s Alpha test, obtaining (0.887). The pilot test was subjected to expert judgment to calculate the content validity for each item, considering the criteria of clarity, belonging, and relevance. The experts concluded that the test was valid. Therefore, they recommended not to delete any item and apply it. To compare the pedagogy of success between the undergraduate and postgraduate groups, the parametric student's t-test was used for independent samples.

**Analysis**

All data were processed using SPSS V.26 statistical software. The specific processes were carried out as follows: in the Validity and Reliability tests of the instrument, the calculation of the content validity ratio was with the maximum evaluation score of 1 for each item, which was subjected to the validity of V for Aitken. The reliability of the instrument was performed using the Cronbach's Alpha test, obtaining (0.887). To determine normality, the Shapiro-Wilk test was used in the Pedagogy of success variable with p > 0.05; therefore, the null hypothesis was accepted, and the alternative hypothesis was rejected. After contrasting the specific hypotheses in each of them, the results are less than 0.05 with a confidence level of 95%. Regarding the specific hypothesis, for each one, the Mann-Whitney U test was used, the result of which was less than 0.05 with a confidence level of 95%. A copy of the accompanying dataset can be found here.

**Ethical considerations**

The research assumed two fundamental ethical principles: 1. Informed consent, 2. confidentiality and anonymity. Before signing the consent letter, the participants received a talk via Zoom, where the study's objective, importance, and scope were explained to them. Participants were informed that the research results would be used strictly for research purposes to improve pedagogical processes. The consent letter was shared with participants via Google Drive and could only be accessed with an institutional email address. This research complies with the Ethical Principles of the teaching staff, provided in Article 6 of the Code of Ethics, Version 1.0; Approved by University Council Resolution No. 143-2019/UCT-CU, dated December 30, 2019, Catholic University of Trujillo, Peru.

**Results**

In Table 1, it can be observed that there are significant differences at p < 0.005 when applying the nonparametric Mann-Whitney U test to the items related to the opportunity to learn dimension.

**Mann-Whitney U test = 69,000, z = −4.685, p = 0.000 (<0.05)**

In the comparison of frequencies of the levels of perception of pedagogy of success in the dimension of opportunity to learn among undergraduate and postgraduate students, it is observed that most (65%) undergraduate university students score in the medium level, with the other 35% scoring in the high level. Among postgraduate students, a higher percentage of 86.7% score in the high level for this dimension and 13.3% in the intermediate level. According to the Mann-Whitney U test results, z = −4.685 and p = 0.000 (<0.05), the alternative hypothesis is accepted, concluding that there are significant differences. This suggests that postgraduate students are given more opportunities to learn from the teacher than undergraduate students.

| Table 1. Opportunity to learn among undergraduate and postgraduate students. |
|---------------------------------------------------------------|
| **Dimension** | **Items** | **Mann–Whitney U test** | **Sig.** |
|----------------|---------------------------------|-------------------------|--------|
| Opportunity to learn | Answer a question, correct or affirm something that has been said in class | 125.000 | 0.000 |
| | Request individual support while working in a group in the classroom | 100.000 | 0.000 |
| | Have individual support outside the classroom or in recesses | 115.000 | 0.000 |
| | Respond in time to a question or question | 95.000 | 0.000 |
| | Have clues or bibliographic references to solve a designated work | 130.000 | 0.000 |
| | Reflect on the proposed topic | 90.000 | 0.000 |
| | Express yourself freely | 145.000 | 0.000 |
| | Raise your own opinions | 130.000 | 0.000 |
| | Present information organizers and explain your productions | 155.000 | 0.001 |

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In Table 3, it can be observed that there are significant differences (p < 0.05) when applying the nonparametric Mann-Whitney U test to the items related to the feedback dimension.

**Mann-Whitney U test = 99.500, z = 4.009, p = 0.000 (<0.05)**

In the comparison of frequencies of the levels of perception of pedagogy of success in the feedback dimension among undergraduate and postgraduate students, it is observed that most (85%) undergraduate university students score in the high level and 15% in the intermediate level, while among postgraduate students a higher percentage (53.3%) score in the middle level for this dimension, and 46.7% score in the high level. According to the Mann-Whitney U test results, z = -4.009 and p = 0.000 (<0.05), the alternative hypothesis is accepted, concluding that there are significant differences. This suggests that undergraduate teachers provide better feedback on students’ learning compared to postgraduate teachers.

It can be observed that there are significant differences (p < 0.05) when applying the nonparametric Mann-Whitney U test to the items related to the consideration for people dimension.

**Mann-Whitney U test = 169.000, z = 2.634, p = 0.008 (<0.05)**

In the comparison of frequencies of the levels of perception of the pedagogy of success in the consideration towards people dimension among undergraduate and postgraduate students, it is observed that most (55%) undergraduate university students score in the high level, and 45% score in the intermediate level, while among postgraduate students a higher percentage of 93.3% score in the high level for this dimension, and 6.7% score in the intermediate level. According to the Mann-Whitney U test results, z = 2.634 and p = 0.008 (<0.05), the alternative hypothesis is accepted, concluding that there are significant differences. This suggests that postgraduate teachers have greater consideration for students than undergraduate teachers.

**Student's t test for independent samples t = -3.270, p = 0.02 (<0.05)**

In comparing frequencies of the levels of perception of the pedagogy of success among undergraduate and postgraduate students, it is observed that the most significant proportion (50%) of undergraduate university students score in the high level and 20% score in the medium level. In comparison, 96.7% score in the high level for this dimension among postgraduate students and 3.3% score in the medium level. According to the results of the students’ t-test, -3.270 and p = 0.002 (<0.05), the alternative hypothesis is accepted, concluding that there are significant differences. This suggests that the pedagogy of success is promoted more in postgraduate students than in undergraduates.

**Discussion**

Higher education teachers must guide their pedagogical performance to help students achieve the general and specific competencies needed for their professional careers. However, to achieve these competencies with undergraduate or postgraduate students, educators must demonstrate didactic qualities, motivate and integrate the student; likewise, they must establish a teacher-student relationship that encourages lifelong learning.

Table 1 indicates that the comparison of frequencies of the levels of perception of the pedagogy of success for the opportunity to learn dimension, there are significant differences (p = 0.000, <0.05); for undergraduate students (65%) with a medium level, and postgraduate students (86.7%) qualify as high level. Galbán Lozano supports these data, and Ortega Barba stated that teachers are professionals who establish connections with students to provide essential support for academic achievement. Only through this method are adequate conditions and academic results created with high well-being and personal satisfaction levels. Active listening, learning from mistakes, and evaluating their successes are also emphasized. Similarly, Roohani and Haghparast argued that the quality of teacher training is related to successful teaching. These results are theoretically corroborated in previous research that argues that teachers must promote change in their pedagogical practice to create interest in learning. It can be seen that academic success is related to the teacher’s pedagogical skills and the student's motivation to assimilate new knowledge.

According to Table 2, the results suggest that in comparing frequencies of the levels of perception of success pedagogy for the feedback dimension, there are highly significant differences (p = 0.000, <0.05). 85% of undergraduate students scored in the high level for feedback, while 53.3% of postgraduate university students scored in the medium level. The teacher must develop didactic strategies that motivate the student in their learning. This corresponds with a recent study that considered the teacher’s didactic capacity essential to the teacher profile. It emphasizes that university higher education students will succeed if they apply a reinforcing, communicative pedagogy that addresses their doubts and expectations for learning. The results are theoretically corroborated. The techniques for achieving pedagogical objectives should consider the student's learning rhythm, the reinforcement of their achievements to improve their
self-esteem, and encouragement for the continuity of their studies, emphasizing the students’ work. Students value these techniques, and they increase their enthusiasm for other activities.9

Table 3 indicates that, in comparing frequencies of the levels of perception of the success pedagogy for the consideration towards people dimension, the data present highly significant differences (p = 0.008, <0.05); 55% of undergraduate students scored in the high level for consideration for people, and 93.3% of postgraduate college students scored in the high level. The findings confirm that teachers and students have the opportunity to develop practical skills through socialization and communication.21 This result is mainly due to the attitude that the teacher has towards the student. If this relationship is appropriate, adequate, and optimal, the probability of achieving affective learning is high. It is also vital to highlight the communication strategies that the teacher applies; the teacher must be passionate about their pedagogical activity. It is not only the application of techniques and instruments, the student must also be considered. The affective dimension is essential for learning because the teacher supports the learner, fosters confidence, professional progress, and enables them to achieve important goals.13

The results in Table 4 show that in comparing frequencies of the levels of perception of success pedagogy, the data present highly significant differences (p = 0.02, <0.05). 80% of undergraduate students scored high for applying the pedagogy of success, whereas 96.7% of postgraduate university students scored high. These results are also found in a recent study where it was suggested that teachers require personal qualities and skills as university professionals.14 The teacher who

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| Pedagogy of success level (opportunity to learn) | Undergraduate students | Postgraduate students |
|-----------------------------------------------|------------------------|-----------------------|
|                                               | N  | %  | N   | %  |
| Low                                           | 0  | 0  | 0   | 0  |
| Middle                                        | 13 | 65 | 4   | 13.3 |
| High                                          | 7  | 35 | 26  | 86.7 |
| Total                                         | 20 | 100| 30  | 100 |

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**Table 3. Feedback received by undergraduate and postgraduate students.**

| Feedback                                                                 | Mann–Whitney U test | Sig.  |
|-------------------------------------------------------------------------|---------------------|-------|
| Positively reinforce your performance                                     | 190.000             | 0.010 |
| Evaluate your work, highlighting your skills                             | 190.000             | 0.012 |
| Congratulate your achievements in the presence of others                 | 165.000             | 0.001 |
| Express constructive criticism when presenting your work                 | 200.000             | 0.022 |
| When praising your progress, they explain the reasons                    | 165.000             | 0.002 |
| During discussions, they invite you to keep talking                       | 145.000             | 0.000 |
| Listens to you carefully                                                | 205.000             | 0.024 |
| Respects your opinions or ideas                                         | 125.000             | 0.000 |

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| Pedagogy of success level (feedback) | Undergraduate students | Postgraduate students |
|-------------------------------------|------------------------|-----------------------|
|                                     | N  | %  | N   | %  |
| Low                                 | 0  | 0  | 0   | 0  |
| Middle                              | 3  | 15 | 16  | 53.3 |
| High                                | 17 | 85 | 14  | 46.7 |
| Total                               | 20 | 100| 30  | 100 |
pushes for success has a high command of their specialty, is competent in the use of methodological strategies to engage the student and commit them to their learning, has a sense of connection to the student that allows them to mobilize, motivate, and awaken their interest in knowledge and success. All this demonstrates trust, respect, constructive criticism, and support for the optimal learning environment. It should be noted that the pedagogy of success is aimed at avoiding all kinds of educational failure or feelings of academic frustration. It is not necessarily about applying didactic techniques and strategies but also the teacher’s way of managing students of varying levels. It is, therefore, necessary for teachers to develop empathy towards students, that is, develop the ability to understand their difficulties in the learning process and give the student the confidence required to overcome adversity.

In sum, this research considers an education focused on developing the learner's attitude, motivation, and autonomy, improving the current pedagogy perception in undergraduate and postgraduate students. It provides a relevant theoretical contribution for future research that addresses this issue.

Conclusions
Once the statistical analysis was carried out, it was determined that there are significant differences in the levels of the Pedagogy of Success for the dimension Opportunity to learn among undergraduate and postgraduate university students; therefore, the postgraduate teacher provides the student with more excellent pedagogical support to improve her learning than the undergraduate teacher. When performing the comparative analysis of the perception of success of Pedagogy
in the Feedback dimension, significant differences were found between undergraduate and postgraduate university students; therefore, the undergraduate teacher clarifies, broadens, strengthens knowledge, and gives students more extraordinary listening skills than the postgraduate teacher. In the dimension of Consideration towards people in the perception of successful Pedagogy, significant differences were found between undergraduate and postgraduate university students. Postgraduate teachers were confirmed to provide students with more excellent courtesy, respect, and affection than undergraduate teachers. Finally, it has been shown that there are significant differences in the perception of pedagogical success between undergraduate and postgraduate university students; therefore, in the application of the pedagogy of success as a formal learning process, teaching and personal inspiration of achievements in knowledge management are promoted more to postgraduate students than to undergraduates.

Data availability

Underlying data

Zenodo: Pedagogy of success: Perception in undergraduate and postgraduate students at a Peruvian university. https://doi.org/10.5281/zenodo.5307057.

This project contains the following underlying data:

- Statistical Results.xlsx
- Processed data.pdf

Extended data

This project contains the following extended data:

- Pedagogy of success questionnaire.docx
- Success pedagogy questionnaire (Technical sheet).docx

Data are available under the terms of the Creative Commons Attribution 4.0 International license (CC-BY 4.0).

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This study, on the pedagogy of success and the perception of the participating students regarding this pedagogy; is scientifically sound, it is supported by well-established theoretical and methodological arguments and procedures. The paradigm, approach, and design it presents allow the research to be statistically processed, interpreted and replicated in other educational contexts. The data of this investigation were opportunely shared in open access (https://doi.org/10.5281/zenodo.5307057).

One of the main strengths of the study is that it raises an appropriate academic debate to address the significant differences found in the perception of the pedagogy of success among undergraduate and graduate university students. In this sense, delving into this problem will allow students to align their potential intellectual development with their aspirations for success, starting from fundamental pillars such as knowing how to be, knowing how to know, and knowing how to do.

It is recommended to strengthen the Conclusions of the research because, although they are concise, clear, orderly, and carry an academic language according to scientific requirements; they do not indicate what were the main limitations that were found throughout the investigative process.

Is the work clearly and accurately presented and does it cite the current literature?
Yes

Is the study design appropriate and is the work technically sound?
Yes

Are sufficient details of methods and analysis provided to allow replication by others?
Yes

If applicable, is the statistical analysis and its interpretation appropriate?
Yes

Are all the source data underlying the results available to ensure full reproducibility?
Yes

Are the conclusions drawn adequately supported by the results?
Partly

Competing Interests: No competing interests were disclosed.

Reviewer Expertise: Science and Technology, Science and Technology Project Management, didactics and educational pedagogy.

I confirm that I have read this submission and believe that I have an appropriate level of expertise to confirm that it is of an acceptable scientific standard.

Reviewer Report 23 December 2021

https://doi.org/10.5256/f1000research.58874.r100440

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Enrique Renteria
Institute of Evaluation and Educational Development, Club UNESCO Compse, Tlalnepantla De Baz, Mexico

The article defines the pedagogy of success with the following characteristics: didactic strategies that motivate the learner to manage his learning; promoting respect for diversity, empathy, and harmonious coexistence; and the use of Information and Communication Technologies (TIC). The instrument used confirms that the work achieved by teachers is not done in isolation, but through collegiate work that allows to define a socialized joint work. The questionnaire applied shows that university students perceive this joint work that is defined as teaching. I agree with the conclusion of the objective proposed by the authors in their research, and which is to highlight the relevance of the pedagogy of success in the integral training of teachers and students.

Teaching as a professional activity has been transformed, like all social practices, significantly with the impact of the conditions of the development of computer and communication technologies, as detailed in my article, "Renteria Castro, Enrique. (2012) Distance education, the use of new technologies and didactics of university teaching. Ibero-American Journal of Educational Research and Development". In addition it has moved from a fluctuating dynamic between an empirical and isolated practice, which is perfected with experience, to be considered as a practice intimately articulated to intellectual processes, supported by the previous training and pedagogical didactic training and mainly with the socialization of the analysis of the teaching exercise.
University teaching becomes a practice based on the reflective and proactive planning of teaching to achieve the design and implementation of strategies for learning, an activity that must be carried out by all teachers, this work of reflection and proposals in the group of teachers is conceptually defined as teaching; and its main action is to be the articulator between theory and social praxis, based on a solid vision of joint work, articulated by two axes; evaluation and processes of continuous improvements.

This means, according to the authors, that the undergraduate teacher clarifies, broadens, strengthens knowledge and gives students way more extraordinary listening skills than the graduate teacher. With the above, we can lead to a discussion and conclusion that the pedagogy of success consists of achieving with the students the fifth pillar of knowledge of education; learning to transform (UNESCO, 2021, *Dialogues on the Futures of Education*). Learning that is achieved throughout the formative trajectory of the students and that the motivational level of the graduate students must be considered because of the pedagogical didactic intervention implemented during the undergraduate school cycles.

It is suggested to consider in the text of Table 4 to refer to the result that consists of the distribution of percentage frequencies according to the perception of success in pedagogy that corresponds to the factor called feedback among university students, which undergraduate students obtain a high score with respect to graduate students.

**Is the work clearly and accurately presented and does it cite the current literature?**
Yes

**Is the study design appropriate and is the work technically sound?**
Yes

**Are sufficient details of methods and analysis provided to allow replication by others?**
Yes

**If applicable, is the statistical analysis and its interpretation appropriate?**
Yes

**Are all the source data underlying the results available to ensure full reproducibility?**
Yes

**Are the conclusions drawn adequately supported by the results?**
Yes

**Competing Interests:** No competing interests were disclosed.

**Reviewer Expertise:** Pedagogy, quality of education, evaluation and curriculum design, development of teaching skills, coordination of academic leaders. Currently the general director of the Institute for Educational Evaluation and Development; and President of the Board of Directors of CLUB UNESCO COMPSE.

I confirm that I have read this submission and believe that I have an appropriate level of
expertise to confirm that it is of an acceptable scientific standard.

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Betsi Josefina Fernández
Universidad Pedagógica Libertador, Caracas, Venezuela

It is suggested that the following aspects be reviewed and clarified:

(a) It is necessary to provide more details of the method applied, differentiating the technique (survey) used according to the instrument designed (questionnaire) and the analysis carried out to facilitate its replicability.

Among the details related to the method applied, it should be indicated which research paradigm was used, which approach predominated in the methodological approach, and which phases or stages were developed during the fieldwork, which will allow a broad assessment and understanding of the work carried out, since the method indicates the path followed to arrive at the results or findings and its description facilitates the understanding and contextualization of the problem addressed.

With the complete visualization of the research, being that the technique reflects the procedure in the collection of data and the instrument the one with which the data were collected, and how its validity and reliability of said instrument was carried out.

b) The statistical analysis (very well developed) is adequate, but not sufficient; it is suggested to refine its interpretation: describe, infer and conclude in each of the tables. However, all the data in the article were tested in the Zenodo open access repository, where it is described1.

Statistical analysis is the key to visualize the relevance of the results, so it is recommended to describe each table, infer from the data shown and close with a conclusion from each table to then generalize.

(c) The conclusions drawn are adequately supported by the results, but can be further strengthened if they are confronted with the theoretical elements developed with the objectives of the study, i.e., produce a discussion of the results confronting them with the proposed objectives.

References
1. Valverde-Zavaleta SA, Mellin Rubio RH, Rafael Sánchez AE, Gonzales Loli M, et al.: Pedagogy of success: Perception in undergraduate and postgraduate students at a Peruvian university [Data set]. Zenodo. 2021. Publisher Full Text
Is the work clearly and accurately presented and does it cite the current literature?  
Yes

Is the study design appropriate and is the work technically sound?  
Yes

Are sufficient details of methods and analysis provided to allow replication by others?  
Partly

If applicable, is the statistical analysis and its interpretation appropriate?  
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Are all the source data underlying the results available to ensure full reproducibility?  
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Are the conclusions drawn adequately supported by the results?  
Partly

Competing Interests: No competing interests were disclosed.

Reviewer Expertise: Pedagogy, Education Curriculum

I confirm that I have read this submission and believe that I have an appropriate level of expertise to confirm that it is of an acceptable scientific standard.

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