## Positive Youth Development Service-Learning **Opportunity for University Students**

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### Abstract

South African university students (n = 18; aged 21–28) participated in the LifeMatters train-the-trainer (TTT) workshop. Ten trained participants (n = 10; aged 21-23) then implemented the program as youth facilitators at three local schools. The study aimed to describe changes in participants resulting from the TTT and implementation experience. Mixed-methods data were collected via self-report survey instruments (ascertaining self-efficacy, self-esteem, and personal growth), training program experiential review forms, and postimplementation focus groups. Survey data were collected pre-TTT, post-TTT, postimplementation, and follow-up (one month after TTT for nonimplementers). Participants reported improvement in self-efficacy, self-esteem, and personal growth following completion of the TTT workshop and further improvements after the implementation experience. The LifeMatters TTT workshop and implementation experience promoted participants' positive youth development (PYD) factors, personal and professional development, and acquisition of mental skills. Implications of providing students with PYD training and supervised service-learning opportunities are discussed.

Keywords: psychological skills, life skills, emerging adults, college students, experiential learning

et al., 2019; Li & Shek, 2019) provide for (a) 2021). improved PYD indicators/factors, (b) skill building (e.g., mental skills), and (c) per- One potential opportunity is LifeMatters, a

ositive youth development (PYD) sential role in fostering student engagement is a strength-based approach to in educational opportunities that foster the promoting positive changes in skills and agency necessary for student youth (Lerner et al., 2011, 2021). development and social change (Bantjes et Capacity-building PYD training al., 2019; De Jager-van Straaten et al., 2016; and education (Balva et al., 2022; Dvorsky Favish et al., 2012; Garton & Wawrzynski,

sonal and professional development. PYD manualized evidence-based PYD program programs aim to foster assets and com- (Hanrahan, 2017) combining elements of petencies and improve PYD outcome fac- sport psychology and cognitive behavioral tors, including self-efficacy, self-esteem, theory (CBT), grounded in PYD (Lerner and personal growth (Catalano et al., 2019; et al., 2011, 2021) and self-determination Chen et al., 2001; Robitschek et al., 2012; theory (Ryan & Deci, 2000). The program Rosenberg, 1989). There is a gap in the consists of 10 sessions, each session inliterature regarding PYD training and su-volving a synergistic mixture of physically pervised PYD service-learning/experiential active games, discussions, worksheets, and learning opportunities for emerging adults a thought-provoking prosocial quote. A de-(18-29 years) in higher education, par- tailed breakdown of each session has been ticularly in South Africa and other low- and published previously, including the mental middle-income countries (Alvarado et al., skills taught and required materials/re-2017; Catalano et al., 2019; Dvorsky et al., sources (Hanrahan, 2012; Page et al., 2022; 2019). South African universities have an es- Serra de Queiroz, 2017). The LifeMatters Tshube, 2016, 2018).

University students who know and use mental skills (e.g., goal-setting, mental imagery, and relaxation) are better equipped psychologically to persevere at university and report higher self-efficacy, self-esteem, and self-worth (Conway et al., 2016; Rivers et al., 2013). Self-efficacy positively affects The first aim of this study was to describe role in university students' subjective wellin proactive ways, and developing self-2016; Mason, 2019).

Supervised facilitation opportunities (e.g., LifeMatters implementation) involving experiential learning may provide university students with an enhanced educational experience (Favish et al., 2012; Maran et

train-the-trainer (TTT) workshop pre- Naudé, 2015; Richards & Levesque-Bristol, pares participants to facilitate/implement 2016; Ryan & Deci, 2000; Young, 2017). the 10-session program with youth groups. Quality service-learning opportunities for The LifeMatters TTT workshop has comple- university students contribute to enhanced mentary elements that contribute to PYD self-efficacy (Allen et al., 2021), self-confactors, such as self-efficacy, self-esteem, fidence (Nickols et al., 2013), and personal and personal growth. Elements include (a) growth (Ti et al., 2021). Experiential learn-CBT and mental skills training methodolo- ing and service-learning can be empowering gies (Hanrahan, 2017; Niveau et al., 2021), (Chan et al., 2016), enhance students' civic (b) a PYD climate (Holt et al., 2020), and learning (Ti et al., 2021), and develop stu-(c) promotion of self-determination (Ryan dents' intercultural competencies (Nickols & Deci, 2000). For example, prosocial values et al., 2013). Community engagement chalare taught explicitly via thought-provoking lenges students by providing novel situaprosocial quotes and discussions (Hanrahan, tions and experiences (Houshmand et al., 2012; Serra de Queiroz, 2017) and implic- 2014), increasing their capacity to deal with itly through fostering a PYD climate (Holt a complex and unpredictable world (Naudé, et al., 2020). Botswana sports coaches who 2015). Therefore, South African university completed LifeMatters TTT reported learn- students who take on opportunities to learn ing mental skills, professional development, an evidence-based PYD intervention (e.g., and increased PYD factors; participants felt LifeMatters TTT workshop), then facilitate/ the TTT positively influenced their lives and, implement the program under supervision, as a result, believed the program should be may garner several benefits and positive taught throughout Botswana (Hanrahan & outcomes. Psychology and sports science university students were selected for the study because they may gain several overlapping developmental and educational benefits from a TTT workshop and servicelearning experience (Chan et al., 2016; Chiva-Bartoll et al., 2018; Ruiz-Montero et al., 2023; Valdez & Lovell, 2022).

students' motivation to learn, resilience, changes in university students' self-effipersistence at university, goal-setting, civic cacy, self-confidence, and personal growth learning experiences, and happiness (Baier during several intervals: (a) pre-TTT to et al., 2016; Richards & Levesque-Bristol, post-TTT (TTT workshop experience); (b) 2016; van Zyl & Dhurup, 2018). Self-esteem post-TTT to postimplementation (impleis a key psychological factor in predicting mentation experience); (c) pre-TTT to university students' learning performance postimplementation (combined TTT and and academic achievement (Arbabisarjou implementation experience); (d) post-TTT et al., 2016). Personal growth plays a vital to 1-month follow-up (follow-up for participants who did not implement the program). being, ability to embrace change, learning The study's second aim was to explore the students' perceptions and experiences about evaluations congruent with self-identity (De the LifeMatters TTT workshop, implemen-Jager-van Straaten et al., 2016; Freitas et al., tation experience, and general impressions of the program, as well as any potential personal and professional development.

### Method

### **Participants and Procedure**

al., 2019). Potential improvements include University students (undergraduate and reinforcing learning (i.e., TTT workshop honors level) in the psychology and sports knowledge), increased autonomy (initiative-science departments were invited to particitaking and accountability), personal devel- pate in the LifeMatters TTT workshop and opment, professional development, and implementation experience via a recruitskills development (e.g., interpersonal skills, ment presentation. Interested students problem-solving and time management; were then provided with detailed par-

ticipant information and informed consent Survey Instruments documents. Psychology and sports science students were targeted because knowledge Demographic Information of an evidence-based psychology program Prior to the TTT workshop (T1), participants and practical experience are supplementary reported their demographic information, in-(n = 10; 9 female) participants facilitated graduate or postgraduate). implementation of the program.

The TTT took place in August 2019 over a long weekend and consisted of 20 hours of interactive learning. The location was inside a gymnasium at a university in the Western Cape, South Africa. Participants received a certificate for completing the TTT workshop.

Two weeks after the TTT, some participants implemented LifeMatters as facilitators. Facilitators worked together in groups of two or three and were supervised by the first Implementation occurred at three schools (across four groups) in low-income urban neighborhoods. Two schools were in a lowresource community outside Stellenbosch; adolescent participants (adolescent learners) were 13-19 years of age, Black South African (100%), and first language isiXhosa (92.9%) speakers (Page et al., 2023). The third school, which caters to children and adolescents with disabilities and chronic health conditions, was in the City of Cape Town; adolescent learners were 13-17 years of age, Black South African (100%), and first language Afrikaans (40%), English (40%), and isiXhosa (20%) speakers (Page et al., 2022).

### Study Design

Quantitative data assessments (survey instruments) measuring participants' selfreported self-efficacy, self-esteem, and Personal Growth Initiative Scale-II personal growth were conducted at three time points: before the TTT workshop (T1; pre-TTT), after completing the TTT workshop (T2; post-TTT), and after participants implemented the program (T3; postimplementation) or follow-up (one month after TTT for nonimplementers). Comparisons between participants' aggregated scale scores at the three time points were analyzed.

Qualitative data were collected from parimplementation (T3; postimplementation). et al., 2012).

to their education and congruent with their cluding age, gender, population group, first vocational interests. Eighteen (n = 18; 15 language, area of study (i.e., psychology or female) participants were trained, and 10 sports science), and level of study (under-

### New General Self-Efficacy Scale

The New General Self-Efficacy scale (NGSE) measures an individual's capacity to adapt effectively to novel and adverse environments and captures their tendency to view themselves as possessing a general sense of mastery (Chen et al., 2001). The NGSE contains eight items, scored on a 5-point Likert-type scale from 1 (strongly disagree) to 5 (strongly agree). Mean scores were calculated, with higher scores reflectauthor while implementing LifeMatters. ing greater positive self-evaluations. The NGSE has adequate reliability (0.88 to .90) and validity (Chen et al., 2001; van Zyl & Dhurup, 2018).

### Rosenberg Self-Esteem Scale

Self-esteem is the positive and negative feelings a person has about themselves. The Rosenberg Self-Esteem Scale (RSES) contains 10 items, scored on a 4-point Likert-type scale from 1 (strongly disagree) to 4 (strongly agree). Five items are positively worded, and five are negatively worded in an attempt to inhibit response bias. Mean scores were calculated, with higher scores reflecting greater positive self-evaluations. The RSES has adequate reliability (0.76 to 0.86) and validity among racially diverse samples (Makhubela & Mashegoane, 2017; Rosenberg, 1989).

The Personal Growth Initiative Scale-II (PGIS-II) is a multidimensional instrument of the behavioral and cognitive components of personal growth and indicates a person's tendency toward pursuing and capitalizing on opportunities for self-improvement (Robitschek et al., 2012; Sanders et al., 2016). The PGIS-II has 16 items, scored on a 6-point Likert-type scale from 0 (disagree strongly) to 5 (agree strongly). Mean scores were calculated, with higher scores reflectticipants via written training program review ing greater positive self-evaluations. The forms completed after the TTT workshop (T2; PGIS-II has adequate reliability (.78 to .93) post-TTT) and focus groups performed after and validity (Çankaya et al., 2017; Robitschek

### Qualitative Data Collection

The review form for the training program contained questions that sought participants' opinions about various aspects of the program, such as their likes and dislikes, along with inquiries about the content they learned and were likely to remember and apply in the future. The experiential review form has been helpful for program evaluation and improvement in prior LifeMatters studies (Hanrahan, 2017; Page et al., 2022, 2023).

Three focus groups were conducted with participants (n = 16; five to six participants per group). A semistructured interview schedule included questions about experiences of the Comparison of Pre-TTT (T1) to Post-TTT (T2) TTT, experiences implementing the program, personal and professional development, evaluation of the program, and the program's suitability to the South African context.

### **Data Analysis**

Survey instrument data were analyzed in IBM SPSS (Version 27). Internal consistency of the surveys was assessed using Cronbach's alpha scores and found appropriate (range 0.70-0.94). Descriptive Postimplementation (T3) statistics were used to summarize participant demographics and primary outcomes. Following Kim's (2013) guidelines, normality was assessed using converted z scores (for small samples). Normally distributed data were analyzed by paired sample t-tests and nonnormally distributed data by Wilcoxon signed-ranks tests. Hedges's q was used to correct for bias of overestimating population effect size (Cumming & Calin-Jageman, 2016). Training evaluation form findings are reported. Focus group data were analyzed using NVivo 12; thematic analysis was performed with themes identified inductively (Braun et al., 2016).

### **Ethics**

Ethical approval was obtained from University of Queensland (Clearance Number 2019001079) and the South African Medical Association Research Ethics Committee. Institutional permission was obtained from the local university and the Western Cape Education Department. Participants provided written informed consent.

### Results

### **Demographic Information**

21–28 years ( $M_{age}$  = 22.22 years; SD = 1.77) zero to small (g = 0.16).

attended all sessions and completed the TTT (see Table 1 for demographic information). Ten participants (nine female) aged 21–23 years ( $M_{age}$  = 21.6 years; SD = .84) facilitated LifeMatters.

## Changes in PYD Factors Following TTT Workshop and Implementation

Comparisons of participants' aggregated scale scores (mean or median) between the three time points (pre-TTT, post-TTT, and postimplementation or follow-up) are reported in Tables 2 and 3. Statistically significant findings are reported in the text.

Mean scores were higher posttraining for all measures (i.e., self-efficacy [NGSE], selfesteem [RSES], and personal growth [PGIS-II; see Table 2]). Effect sizes (Hedges's q) for the scales ranged from small to medium (g = 0.18 to 0.51). A two-tailed paired samples t-test indicated a statistically significant improvement for NGSE, t(17) = -3.03, p < .01.

# Comparison of Post-TTT (T2) to

Mean scores were higher postimplementation for NGSE and RSES (see Table 2). Effect sizes (Hedges's g) for the scales were small (g = 0.13 to 0.14). The median (50th percentile) score was higher in the expected direction postimplementation for PGIS-II (see Table 3). The effect size (Hedges's q) for change on this scale was large (q = 0.75).

### Comparison of Pre-TTT (T1) to Postimplementation (T<sub>3</sub>)

Mean scores were higher postimplementation for NGSE and PGIS-II (see Table 2). Effect sizes (Hedges's *g*) for the scales ranged from small to large (q = 0.33 to 0.74). The median (50th percentile) score was higher in the expected direction postimplementation for RSES (see Table 3). The effect size (Hedges's q) for the scale was large (q =1.40). A Wilcoxon signed-rank test indicated the difference was statistically significant for RSES, T = 53.00, Z = -2.64, p = .01.

## Comparison of Post-TTT (T2) to 1-month Follow-up (T3) for Participants Not Involved in Implementation

Mean scores at follow-up were unchanged for NGSE, and mean scores had decreased for RSES and PGIS-II (see Table 2). Effect Eighteen participants (15 female) aged sizes (Hedges's g) for the scales ranged from

Table 1. Demographics of the Trained Sample (n = 18) and Implementation Subsample (n = 10)

Baseline characteristic	Trained	d sample	Implementers		
Baseline characteristic	n	SDI%	n	SDI%	
Age (Mean years)	22.22	1.77	21.6	0.84	
Gender: Female	15	83.33	9	90	
Population group					
Black South African	1	5.56	1	10	
Colored*	1	5.56			
White	16	88.89	9	90	
Area of study					
Psychology	13	72.22	9	90	
Sport science	5	27.78	1	10	
Level of study					
Undergraduate	12	66.67	9	90	
Honors	6	33.33	1	10	
Primary Language					
Afrikaans	3	16.67	1	10	
English	13	72.22	7	70	
isiXhosa	1	5.56	1	10	
German	1	5.56	1	10	

<sup>\*</sup>In South Africa, the term "colored" signifies a person of mixed race.

Table 2. Paired Samples t-test Results of Participants

Scale	Cronbach's alpha	<i>M</i> 1	S <i>D</i> 1	M2	SD2	t	df	p	Hedges's g
Compar	rison of pre-TTT (T1) to	post-TT	T (T2)						
NGSE	0.70	4.03	0.38	4.23	0.39	-3.03	17	0.01	0.51
RSES	0.89	3.04	0.50	3.14	0.50	-1.40	17	0.14	0.18
PGIS	0.91	3.93	0.59	4.11	0.61	-1.57	17	0.18	0.28
Compar	rison of post-TTT (T2) to	o postim	plementa	tion (T3)					
NGSE	0.81	4.29	0.35	4.35	0.49	-0.48	9	0.64	0.14
RSES	0.92	3.27	0.52	3.34	0.50	-1.77	9	0.11	0.13
Compar	rison of pre-TTT (T1) to	postimp	lementati	on (T3)					
NGSE	0.84	4.00	0.41	4.35	0.49	-2.17	9	0.06	0.74
PGIS	0.92	3.90	0.63	4.15	0.82	-1.65	9	0.13	0.33
Compar	rison of post-TTT (T2) to	o 1-mont	h follow-ւ	ıp (T3)					
NGSE	0.77	4.09	0.43	4.09	0.47	0.00	7	1.00	0.00
RSES	0.83	4.14	0.47	4.08	0.35	0.60	7	0.57	0.14
PGIS	0.84	2.96	0.44	2.90	0.25	0.52	7	0.62	0.16
						0 15 = 1		DO10 D	

Note. NGSE: New General Self-Efficacy scale; RSES: Rosenberg Self-Esteem Scale; PGIS: Personal Growth Initiative Scale–II; M1: Scale mean at Time Point 1; M2: Scale mean at Time Point 2.

Scale	Cronbach's alpha	Mdn1	S <i>D</i> 1	Mdn2	SD2	z	df	p	Hedges's g
Comparison of Post-TTT (T2) to Postimplementation (T3)									
PGIS	0.94	4.34	0.72	4.56	0.82	-1.64	9	0.10	0.75
Comparison of Pre-TTT (T1) to Postimplementation (T3)									
RSES	0.91	3.20	0.53	3.40	0.50	-2.64	9	0.01	1.40

Table 3. Wilcoxon Signed-Ranks Test Results of Participants

Note. PGIS: Personal Growth Initiative Scale-II; RSES: Rosenberg Self-Esteem Scale; Mdn1: Scale median at Time Point 1; Mdn2: Scale median at Time Point 2.

## The Experience of LifeMatters: Training, Implementation, and Personal and **Professional Development**

Train-the-Trainer (TTT) Workshop Experience

of Teamwork. All participants enjoyed the supportive, judgment-free atmosphere of the workshop, meeting new people, and working in groups. The interactive delivery format, the authentic and enthusiastic trainer, and the ethos of teamwork and cooperation helped participants feel comfortable, learn, and have fun. The activities requiring teamwork and socialization took participants out of their comfort zones and created links that developed into friendships. "You have at least one thing in common with every person you meet. All close friends were once strangers, it is okay to open up" (Participant 1). Through activities and discussions, participants opened up and discovered commonalities, which led to bonding and the unexpected formation of friendships within 2 days. The games and physical activities were enjoyed, particularly cooperation and trust.

TTT Improvements: Recruitment, Duration, Practice, and the Manual. Participants suggested that recruitment should better explain and convey the content and methods of the TTT workshop. Initially, participants had assumed that the program would entail traditional sporting activities (e.g., soccer) and that life skills would be transmitted vicariously through bonding. "The explanation in class was enough to, like, get me like, 'okay, cool, I want to do this,' but I thought we were gonna be playing, like, softball" (Participant 2). Further, participants suggested the training be spread over several days and additional time be provided to run through the training.

Conversely, participants felt that some sessions and activities could be shortened. The provided food and the snack breaks were appreciated and gave participants time to relax, refresh, and reflect between sessions. Receiving training outdoors when weather **TTT With Fellow Students: Benefits** conditions permitted was suggested.

> The workshop was regarded as contextually relevant. Participants were cognizant that training took place among Englishspeaking, university-educated young adults and were concerned that translating training to practice may be challenging. They assumed adolescent learners from low-resource schools may struggle to grasp content quickly due to their young age, poor literacy levels, and language differences. Participants who had issues with being touched disliked games that required physical proximity. Concern was raised that overweight and disabled individuals might not be able to participate in certain activities (e.g., a trust activity where participants are lifted off the ground by the group and swayed gently back and forth).

Three program manual improvements were the more challenging activities requiring suggested: (a) a session-by-session introduction and a summary overview highlighting how learning content (e.g., selfconfidence) relates to specific development outcomes (e.g., self-esteem), (b) a checklist to tick off while progressing through the program, and (c) visual cues and pictures of different activities and games (e.g., versions of tag-based games) to assist content recall when facilitating sessions.

> What would help, um, would be just having a picture taken on the day of the training, where for example, like, with the different tag games, like, with people standing like a flamingo. . . . Um, just that picture, I'd be like, "OH! Okay, yes! I know exactly which game we're talking

about!" . . . Just those visual cues I think would have been a lot more helpful: "Okay, yes. This is where we are. This is what we're doing today." (Participant 3)

Having practiced all the activities during the TTT, participants felt competent and prepared to implement the program. The certificate awarded after the TTT was appreciated because it validated participants' efforts, acquisition of knowledge, and experience gained.

### Implementation Experience

Learning on the Job and Facilitation **Preferences.** Participants reported feeling shy and uncertain of themselves while facilitating the first few sessions. "Yeah, the adolescent learners' poor literacy, learnand I think especially at [school name], ing difficulties, language barriers, and the like we struggled, I know on the first day, need for facilitators to repeat themselves as of authority while being relatable and apacquisition of the program's lessons. "Yeah, experience: being able to, like, teach it to someone else definitely, like, imprints it" (Participant 4).

The participants had differing experiences and perspectives regarding supervision by the first author, the implementation group size, and working alongside a cofacilitator. Supervision made some participants feel relaxed, comfortable, and supported, whereas others felt evaluated and nervous. Cofacilitators promoted participants' confidence by providing support and a sense of security, and by being someone to turn to for assistance during times of uncertainty or when challenges arose. Some participants disliked having a cofacilitator because they and collaboration while working alongside in South Africa. The participants felt emyouths) were considered fun due to their commitment.

high energy and level of responsibility. Smaller groups (approximately 10 youths) were liked because the discipline was better, enabling more intimacy and one-on-one time with adolescent learners.

Time Management and Adhering to **Program Activities.** Poor time management affected some participants' implementation. "I think that sometimes we felt a bit rushed, like there was just so much to do and, like, almost teach them that, maybe it felt rushed because we had to explain ourselves, like, 10 times" (Participant 5). Participants occasionally omitted content they deemed less important (e.g., a detailed model of attention) to focus on and emphasize lessons they believed were more relevant and beneficial (e.g., goal setting). Participants pointed to I was like very, um, like, shy around the reasons for the time crunch. For a minority kids" (Participant 2). Occupying a position of participants, their university schedules did not synchronize with the implementaproachable was challenging, mainly when tion sites (schools), resulting in suboptiadolescent learners' discipline was poor. mal/irregular implementation schedules. After a few sessions, participants felt con- Due to irregular implementation affecting fident, empowered, and self-assured; these continuity, some participants felt they had attributes carried over into their lives after not formed as close relationships with the the program. Preparation and facilitation of adolescent learners as they had hoped. sessions necessitated participants' familiar- Overall the implementation was considered ization and engagement with the learning enjoyable, as evidenced by a participant content, resulting in improved knowledge who reminisced about the implementation

> The laughter that came from the sessions was just contagious. I found myself screaming just as much as the kids when we were playing the games. . . . It was almost like a little bubble that we existed in when the intervention was going on. It was like everything else just stopped and it, like, it wasn't just a school. . . . It was like there was something going on, there was this containment of energy and it was amazing, yeah. (Participant 3)

The South African Context. felt less needed, which resulted in reduced Implementation opened participants' eyes interest and engagement. Participants re- to the realities (limitations, challenges, and ported learning teamwork, cooperation, opportunities) of psychology intervention their cofacilitators. Over time, participants powered and proud to contribute to PYD learned their cofacilitators' strengths, in the local underserved communities. The interpersonal styles, and teaching meth- sense of satisfaction from giving back to the ods. Larger group sizes (approximately 20 community justified the participants' time

I think also, like, we have helped them in, like, quite a special way, like teaching them new things, but also just helping them with their confidence too, and I think that's quite rewarding for me. (Participant

Active involvement with adolescent learnand greater familiarity with the challenges Participants were grateful for the numerous from underserved (low-resource and lowincome) communities. Implementation raised participants' awareness of the systemic problems in the community and the adolescent learners' daily struggles; they were inspired by what the adolescent learners had achieved, given the lack of PYD opportunities.

I also think, like, working with people from a specific background and context, you realize how much you actually have and how different your lives are, and I think we also actually learned a lot from the [adolescent learners] and, like, you can appreciate how much they do to get to where they are. (Participant 6)

Relating and forming bonds with the adolescent learners came naturally for some participants. "I really enjoyed the way nity in which the intervention was implethat we, like, got a chance to build a relationship with the children, or yeah, the kids along the way, and yeah, it was really amazing for me to see how they actually responded" (Participant 7). Implementation challenged participants' self-perceptions of their strengths and interpersonal capabilities. Furthermore, participants reframed how they viewed personal achievement and implementation success, unanimously considering implementation successful and a positive experience.

### Personal and Professional Development

Improved PYD Factors and Mental Skills. Participants' personal development included improved self-efficacy, self-esteem, and personal growth; notable improvements included self-confidence

(e.g., public speaking), emotion regulation, and interpersonal skills. Participants felt they had learned valuable lessons that could be used in everyday life and had developed greater insight into their emotions and competencies. Participants reported learning and improving in the following skills: breathing/relaxation techniques, communication, goal-setting and motivaers from the local underserved community tion, imagery, positive coping mechanisms, progressive muscular relaxation (PMR), inherent in the local schools kickstarted self-affirmations, self-talk, teamwork, a process of reflexivity for participants. and thought stoppage. Participants spoke of improved sleep, stress management, opportunities during their lives, including and time management by using mental their access to higher education. Prior to the skills (e.g., PMR and breathing activities). study, the majority of the participants had "I do imagery quite a lot, um, and mindfullimited exposure and experience meaning- ness every night I go to sleep, so I learned fully interacting with adolescent learners it before the course, but after, I went on and made a thing to actually implement in my own life" (Participant 8). A participant spoke of overcoming their fear of failure and hesitance in setting goals and reported progressing toward a long-term goal (a fun run). A participant used thought stoppage and breathing activities to interrupt negative cyclical thinking and reduce anxiety.

> Like today, I had a, like, not anxiety attack, but just overwhelmed by a lot of things I had to do and, um, I just had to tell myself, "stop," like you literally just have to stop, take a deep breath and . . . I mean, that is something that LifeMatters taught us. (Participant 5)

Positive personal development was highlighted more specifically for some students. A first-generation student from a commumented spoke of the relevance and impact of the mental skills and prosocial quotes (life lessons) to themselves, their family, and first-generation students.

I also come from flow-resource community], so, like, the skills that I learned were very helpful for me, because to be honest with you, I had never heard some of those things we heard there [during TTT], I was telling my sister and my friend and, like, going through the goalsetting thing and she'd also never heard of it, so, um, she was very happy about it. . . . I didn't know about the breathing exercises. I didn't know about the "control the controllable" stuff. Like, my mom

doesn't know anything about this. I know, because coming from my family, like most of the friends I have, like, we are first-generation university people, like, you don't have anyone, um, back home to tell you, like, to coach you on how to cope in university. . . . Like, you feel like you're thrown in the deep end. (Participant 9)

Prosocial Values and Growth Mindset. Prosocial values (e.g., trusting others and being nonjudgmental) and being mindful and intentional about fostering a positive described as a bridge connecting psycholmindset were reported. Focusing on the present and having a positive outlook on LifeMatters training had broad appeal to life were essential life lessons. The program's prosocial quotes were instrumental to participants' learning and self-reflection because participants related to them meananonymously by peers were an exceptionthey reported taking home the supportive, uplifting comments as a keepsake. and making the program compulsory by Participants reported increased self-motivation and positive thinking, in part due to without your consent").

I remember after that [TTT], I've just had a more positive mindset. It really changed something. I'm not usually very good at adopting positive things into my life. It just opened my eyes again that it is very helpful to be more positive and that there is also a lot to be positive about. (Participant 10)

The TTT inspired further self-development; participants reported investigating resources (e.g., self-help books) to learn about the mind, the brain's functions, and additional mental skills. Agency and taking control of one's life and behaviors was an important life lesson. "I think for me it's the same with 'control the controllable.' . . I feel like I have more control of my life and I know the stuff that I can control, I actually do control, like waking up early" (Participant 9).

Relevance for University Students: Professional and Educational Development. Primary motivations for involvement in the study were to learn about sport psychology, learn new skills, gain practical experi-

ence, accumulate practical hours toward a degree, CV building, and to make a positive impact; participants felt they had met these objectives. Participants regarded the TTT as relevant and beneficial for themselves, psychology and sports science students, and university students in general. "The content, I feel, is very important for university students" (Participant 11). The sport psychology skills and concepts were regarded as complementary to their education, explaining new psychological concepts and filling knowledge gaps in a novel and easy-to-digest format. The program was ogy and sports science. Participants felt the students interested in psychology.

Nevertheless, concern was raised that students might not prioritize developmeningfully. The positive affirmations written tal and educational opportunities (e.g., LifeMatters) above studies, employment, ally positive experience for participants; and socializing. Incorporating LifeMatters into psychology and sports science degrees other means were suggested to increase students' involvement. The learning content the group discussions and prosocial quotes was considered a balanced mixture of prac-(e.g., "Nobody can make you feel inferior tical and theoretical components. However, a participant suggested a more lecture- and theory-based teaching approach to increase the broad appeal of the program due to the perception that students may feel selfconscious or too cool to partake in physical activities and games properly.

> Rare Opportunity: Practical Psychology **Training.** The participants relished the rare opportunity to gain practical psychological training and experience during their studies. Implementation relieved participants' frustrations caused by years of studying with few opportunities to learn practical skills and work with people.

Like, we don't have opportunities, really, to do anything that's beneficial to the community when we're still studying. I think that's one big problem that we have in general, is that you can't actually do a lot because you're not qualified and it takes, it's such a long process to get a qualification that certifies you to actually go and work in the community, so the whole program was really cool, because it was the first time that I could actually go do something about it and it was

actually really clear. . . . Yeah, it's actually going to do things that I know is going to make a difference. (Participant 12)

using LifeMatters games that required no regarding university students. resources (e.g., tag-based games) in their professional lives when coaching children Personal and Professional Development despite having access to fancy equipment. Participants expressed the desire to continue implementing the program in the future.

### Discussion

## Changes in PYD Factors Following TTT Workshop and Implementation

The LifeMatters TTT workshop and implementation experience improved the university student participants' self-efficacy, self-esteem, and personal growth. Due to the interconnected nature of self-efficacy, self-esteem, and personal growth (Çankaya et al., 2017; Chen et al., 2001; Freitas et al., 2016; Robitschek et al., 2012; Rosenberg, 1989), it is unsurprising that these PYD factors all improved together. Effect sizes (Hedges's q) for the TTT, implementation, and combined experience ranged from small to large for a psychological implementation study (Cumming & Calin-Jageman, 2016). not for significance testing; therefore, statistically significant findings should not be overinterpreted.

Mental skill usage (Conway et al., 2016; Rivers et al., 2013) and service-learning mental skills reportedly learned, improved, opportunities (Allen et al., 2021; Nickols et al., 2013; Ti et al., 2021) have been linked to elevated self-efficacy, self-esteem, and (e.g., increased autonomy) gained and impersonal growth, potentially partly explaining students' elevated PYD outcome ences will likely transfer to other areas of factors. The TTT and implementation ex- life and confer long-term positive change perience independently contributed toward (Ryan & Deci, 2000; Young, 2017). Evidence elevated participant PYD factors; however, of professional development and knowlthe combined benefits of the TTT work- edge transfer was seen in participants who shop and implementation experience may employed practical skills and LifeMatters be greater than the sum of their parts. It is content (e.g., physically active games) not possible to ascertain the benefits/influ- in their professional work lives. Personal

dependently, given that the TTT workshop is a prerequisite of implementation and the implementation occurred directly after the TTT workshop. Nevertheless, despite these limitations, findings illustrate the Mental skills that apply to athletes, the implementation experience offered benefits general public, and everyday life situ- beyond the TTT. By comparison, the PYD ations were considered remarkable for factors of the participants who completed their practical utility and for humanizing only the TTT remained fairly stable at folthe science in a down-to-earth manner. low-up (T3) one month after the TTT. The "Yeah, we learned how to apply what we quantitative findings are in line with prior know to, like, athletes to actually, like, the LifeMatters TTT studies from low-income average day person, which is actually a bit settings (Hanrahan & Tshube, 2018) and nicer" (Participant 1). Participants reported expand PYD literature in Africa, specifically

Qualitative findings corroborate and support the quantitative results, providing further insight into how the LifeMatters TTT workshop and implementation experiences contributed to students' development. The knowledge, skills, and competencies gained during the TTT workshop were enhanced and solidified during the hands-on learning of the implementation experience. As expected, the overall experience promoted participants' PYD factors (self-efficacy, self-esteem, and personal growth), acquisition of mental skills, and personal and professional development.

The elevated PYD outcome factors appear to be linked with other improvements reported by participants, including mental skill usage, perseverance, positive self-identity, and deeper introspection. These links and improvements align with other researchers' findings (Arbabisarjou et al., 2016; Baier et al., 2016; De Jager-van Straaten et al., 2016; The study was intended to inform practice, Mason, 2019; Richards & Levesque-Bristol, 2016; van Zyl & Dhurup, 2018).

The LifeMatters CBT and mental skills training methods (Hanrahan, 2017) appear to have been successful, with numerous and adopted in various spheres of participants' lives. The assets and competencies proved through real-life practical experience of the implementation experience in- growth and a growth mindset were indiet al., 2016).

The community engagement during implementation challenged and empowered 2021; Naudé, 2015).

The TTT workshop and implementation cies (i.e., interpersonal skills), and cultivatit also promoted agency (i.e., perseverance et al., 2011, 2021). Altogether, the improvements participants reported may serve as both promotive and protective factors, posi-Thus the educational, capacity-building, supervised implementation experience. and personal and professional development that university students gained from this Peer relationships/friendships organically they may not get these benefits elsewhere.

## **Implications for Practice: TTT Workshops** and Implementation Experiences

The psychology and sports science university students in this study completed the LifeMatters TTT workshop and implemented/facilitated the intervention with groups of adolescents; the research focused on the adolescent samples is published elsewhere The LifeMatters teaching approach (mix

cated by inspired participants who sought recommendations may be appropriate and further self-improvement opportunities and helpful to researchers/practitioners who resources (Robitschek et al., 2012; Sanders wish to establish, implement, or improve a similar program and implementation (service-learning) approach, particularly with university student groups.

participants, improved intercultural com- Psychology and sports science students, petencies, and fostered a deeper sense of by their own account, desire and are ideal social/civic responsibility. These benefits candidates for group-based experiential were reflected in participants' desires to and hands-on learning, particularly when implement the program again. These find- these opportunities are supplementary to ings align with other service-learning and their education, congruent with their vocommunity engagement research (Chan et cational interests, aligned with their key al., 2016; Houshmand et al., 2014; Naudé, motivators, and offer learning content that 2015; Nickols et al., 2013; Ti et al., 2021). covers topics of interest (e.g., psychological Enhancing students' agency for self-devel- and mental skills). Students' motivations opment and social/civic change is founda- for participation included learning about tional to PYD philosophy (Lerner et al., 2011, sports psychology, gaining practical experi-2021); furthermore, promoting prosocial ence and skills, CV building, accumulating values and a sense of social responsibility practical hours toward a degree, and posiis an important role that higher education tively influencing society. These motivainstitutions in South Africa should fulfill tors should be considered when designing (Favish et al., 2012; Garton & Wawrzynski, and recruiting students into PYD training and developmental opportunities to inspire students to participate and overcome their apathy/reluctance for developmental opcontributed to core components of PYD: portunities. University students in South improved mental skills (e.g., goal-setting), Africa and other developing nations rarely building participants' assets and competen- have access to PYD training opportunities in higher education (Alvarado et al., 2017; ing healthier norms (i.e., prosocial values); Catalano et al., 2019; Dvorsky et al., 2019). For the above-listed reasons, which align and positive self-identity) and contributions with other researchers' findings (Chan et to civil society (Catalano et al., 2019; Lerner al., 2016; Chiva-Bartoll et al., 2018; Ruiz-Montero et al., 2023; Valdez & Lovell, 2022), psychology and sport science university students greatly benefit from and thus jump tioning students on a positive trajectory for at the opportunity to participate in a strucsuccess at university (Bantjes et al., 2019; tured, manualized, and evidence-based TTT Conway et al., 2016; Rivers et al., 2013). program/workshop with an accompanying

experience should not be understated, as grow from group-based TTT and implementation experiences that involve close proximity, shared experience, and trust and empathy games. Peer relationships/ friendships are potential long-term assets for students. Strategically offering these learning and growth opportunities, for example, at the start of the academic year, may promote positive group cohesion and identity among a class/cluster of students.

(see Page et al., 2022, 2023). The lessons of theoretical and practical elements) relearned from participants' evaluations ceived high praise from the students due to and perceptions align with prior research the engaging and fun activities, and easyinvolving the LifeMatters TTT workshop to-understand and thought-provoking (Hanrahan & Tshube, 2018). The resulting content. The experiential learning ap(Hanrahan, 2012; Holt et al., 2020; Serra de and self-efficacy (Young, 2017). Queiroz, 2017). TTT workshops with a PYD climate and group activities (especially in- Limitations and Future Research volving teamwork) and discussions (small **Directions** and big groups) create supportive opportunities for participants to practice interpersonal and social skills.

A well-developed program manual is a key material for training and an invaluable resource for facilitators to use during A study limitation is that learnings may be summary of key learning content and outcomes, progress checklists, and visual cues ered within the greater context of similar (e.g., images) of activities as reminders. to keep time and pace when implementing programming.

Concerning planning and structuring implementation, facilitators benefited from and preferred working in pairs with implementation on the community. a cofacilitator, with supervisory support available when needed to assist with in LifeMatters has shown the potential to be situ challenges as they occurred. TTT and a much-needed addition to South African implementation experiences take students universities to provide psychology and out of their comfort zones; the novel and sports science students with an evidenceunfamiliar contexts and problems stimulate based PYD education and service-learning participants' active engagement and learn- opportunity. Future research could investiing. Implementation experiences foster re- gate the LifeMatters workshop adapted to be flexivity and introspection concerning par- part of a credit-bearing PYD subject for uniticipants' privileges, personal competencies, versity students. Additionally, integrating and interpersonal styles. Structured written supervised service-learning (Favish et al., reflections incorporated into the TTT and 2012; Maran et al., 2019) within institutions implementation protocols could promote grounded in evidence-based psychology, students' introspection (Chan et al., 2016; such as programs like LifeMatters, war-Houshmand et al., 2014; Nickols et al., rants more in-depth research. It would be 2013), potentially contributing to learning worthwhile to examine the influence of the cultural competency, and promoting self- LifeMatters PYD workshop across a range efficacy and personal growth (Sanders et al., of higher education institutions, fields of 2016; Young, 2017).

University students may feel anxious facilitating programming with youth groups, notably if they differ in terms of demographics The LifeMatters TTT workshop and imple-

proach is effective with university students in a leadership/authority role. However, (Shek, 2012), and thus a more lecture-based despite differences (both real and imagined), teaching style may be counterintuitive and the student facilitators and the adolescent counterproductive to achieving the positive learners both reported meaningful bonds; outcomes of the present study. A TTT work- additionally, the facilitators were deemed shop should prepare facilitators for imple- relatable and caring role models (Page et al., mentation by teaching culturally responsive 2022, 2023). Given a TTT workshop trainprinciples and practices (Gliske et al., 2021; ing facilitators in PYD methods (Lerner et Hanrahan, 2011; Simpkins et al., 2016). To al., 2011, 2021), and with adequate support this end, facilitators should be taught how during implementation, students' cultural to foster a PYD climate, defined as an inclu- competence will develop rapidly, as well as sive, supportive, and enabling environment their communication skills, self-confidence,

In future research, follow-up after the TTT and the implementation would be valuable to ascertain long-term effects and stability of improvements. Future research should include a larger sample and a control group. implementation. Facilitator manuals can be case-limited to this particular type of proimproved by including a session-by-session gram and approach to engagement; therefore, findings should be interpreted/considapplied research. Future research could Time management skills should be explicit- include implementation science protocols ly taught, because facilitators often struggle and methods to assess possible decreases in the effectiveness of PYD and LifeMatters implemented with child and adolescent participants within an experiential learning context. Future research might also investigate the long-term impacts of TTT and its

study, and demographic groups.

### Conclusion

(e.g., ethnicity, language, culture, socioeco- mentation experiences improved students' nomic status) and if it is their first time self-efficacy, self-esteem, and personal well-being and resilience. Hallmarks of a students.

growth. The TTT workshop was relevant successful PYD program include building and beneficial for the university students, assets and competencies, fostering an encontributed to their personal and profes- abling environment, increasing agency, and sional development, and promoted knowl- increasing contributions to civil society. The edge and use of mental skills. Community LifeMatters TTT and implementation expeengagement and experiential learning riences meet these criteria. The LifeMatters provided students with real-life practical workshop and supervised implementation experience and enhanced learning. Students experience have merit for inclusion at insti-(emerging adults) navigating the challenges tutions of higher education in South Africa of university life may find PYD programs and have particular value for psycholsuch as LifeMatters valuable for promoting ogy, sports science, and first-generation



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