19ème congrès de l'association des chercheurs en activités physiques et sportives



CORUM DE MONTPELLIER27 AU 29 OCTOBRE 2021



SYMPOSIUM

PROMOTION OF HEALTH IN HIGH PERFORMANCE SPORT

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Lefebvre du Grosriez S., Isoard-Gautheur S., Cécé V., Martinent G. & Sarrazin P.

When being an elite athlete conflicts or enriches with being a student and vice versa: Psychometric validation of interrole interactions and consequences on well-being











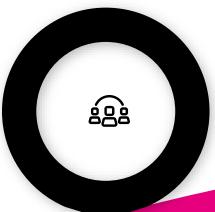
I. INTRODUCTION

- A. Student-Athletes
- B. Theoretical framework
- C. Literature
- D. Objective & Hypothesis



II. METHOD

- A. Participants
- B. Measurements
- C. Analysis Strategy



III. RESULTS

- A. Scale validation
- B. Latent profile & Dummy Variables Regression



- A. Conclusion
- B. Limits and futures researchs

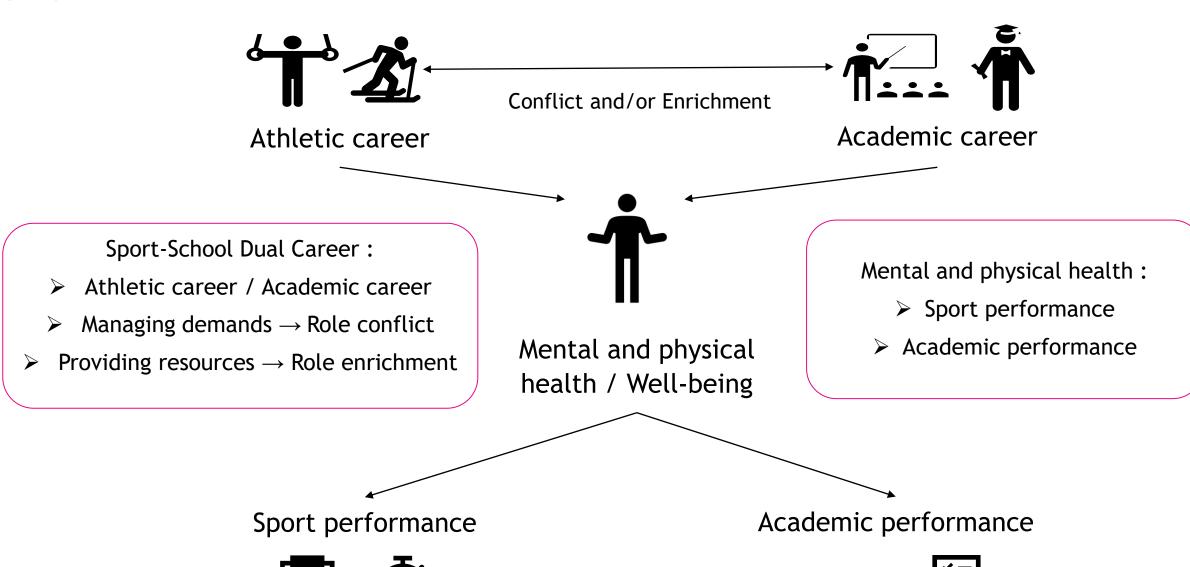


How do role interactions relate to student-athlete well-being?

What is a student-athlete?

Which theoretical framework in psychology can it be connected to?

I. A. WHAT IS A STUDENT-ATHLETE?



I. B. THEORETICAL FRAMEWORK

Conflict: Enrichment: Positive impact of one role on Negative impact of one role on the other = Interference the other = Facilitation > Development > Time > Affect > Strain > Capital > Behaviour (Greenhaus & Beutell, 1985) (Greenhaus & Powell, 2006) School **Sport** Interface (Role interactions)

I. B. THEORETICAL FRAMEWORK

Conservation Of Resources (COR):

4 groups of valued resources (Hobfoll, 1989): objects, conditions, personal characteristics/resources and energies

Wendling et al. (2018) suggest :

- A link between resources and role conflicts
- Resources modulating the relationship between role conflict and tension

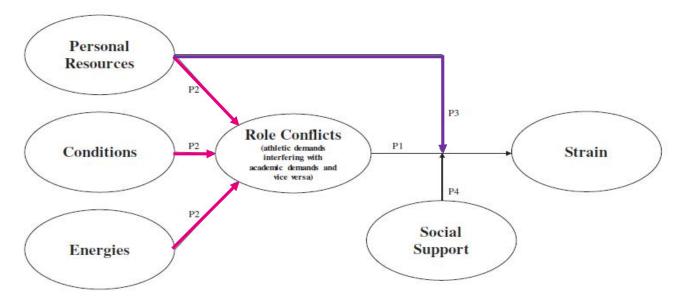


Figure 1. Proposed COR conceptual model of student-athletes' role conflicts and resulting strain.

LIMITS

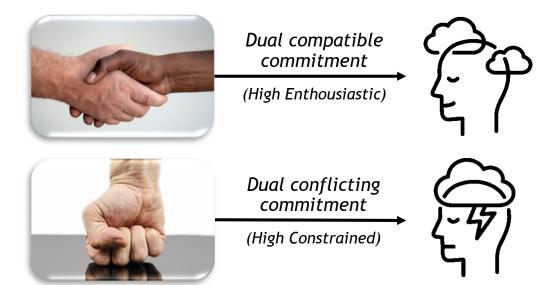
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I. C. STUDENT-ATHLETE LITERATURE



Di Lu et al. (2018): Identity conflict when at least one of the two identities is high

CONFLICT = NEGATIVE IMPACT Snyder (1985): Dual compatible commitment vs Dual conflicting commitment



O'Neil et al. (2021): 4 different commitment profiles related to well-being

IDENTITY & COMMITMENT

≠

ROLE INTERACTIONS

I. C. WORK-FAMILY LITERATURE

Carlson et al. (2000, 2006): Conflict and enrichment are differently related to well-being

MacDermid (2003)

Frone (2003)

Enrichment is more than the opposite of conflict

Carlson et al. (2006)

Greenhaus & Powell (2006)

TWO WORK-FAMILY INTERFACE COMPLEMENTARY COMPONENTS

INTEREST

ROLE INTERACTIONS
RELATED TO WELL-BEING

I. D. OBJECTIVE & HYPOTHESIS



Assessing the interactions between roles and their relationship on the well-being of student-athletes

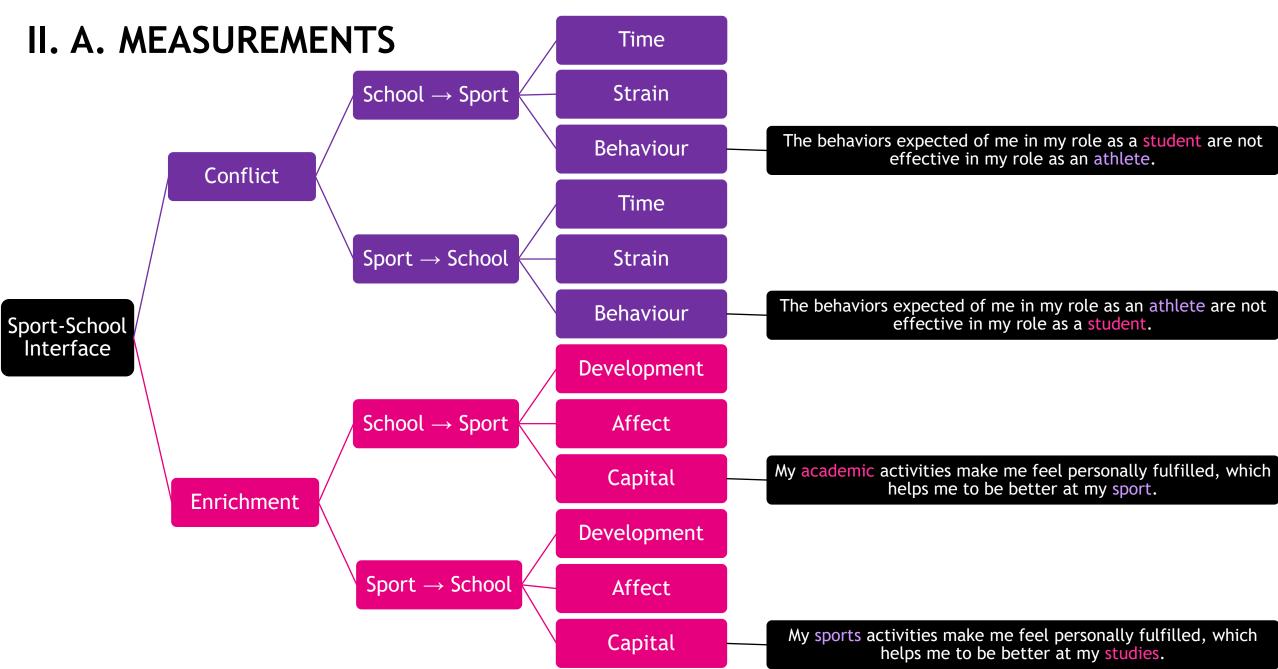
- 1) Conflict and Enrichment (form the work-family interface) are valid and measurable in the sport-school context.
- 2) Sport-School conflict and enrichment predict sport well-being, negatively and positively respectively.

II. A. MEASUREMENTS



- > SSIS (Sport-School Interactions Scale, validation in progress) ————— Role interactions
- > AAIS (Athletic and Academic Identity Scale, Yukhymenko, 2014) _____ Role salliance
- > Feeling of load (sport and school) Context evaluation
- > ABO-S (Athlete Burnout Scale, Isoard-Gautheur et al., 2018)
- > AEQ (Athlete Engagement Questionnaire, Lonsdale et al., 2007)

Sport Well-being



II. B. PARTICIPANTS

363 student-athletes : 50,41% ♀ ; 81,54% between 18 et 21 years old

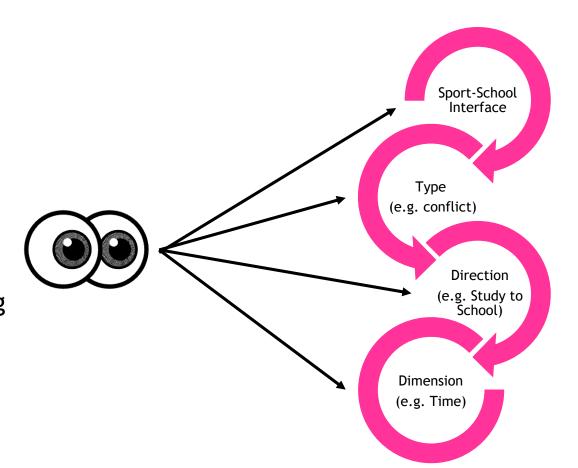
Academic level: 80,72% first and second academic years

Athletic level: 27,5% departmental et regional, 42,28% national et 27,23% international/Olympic

Academic time: 25,69 hours per week (σ = 11,87) Athletic time: 11,71 hours per week (σ = 6,40)

II. C. ANALYSIS STRATEGY

- A. Scale validation (SSIS)
 - (Hierarchical) Confirmatory Factorial Analysis
 - Exploratory Structual Equation Modelling
 - Bifactor Models
 - **>** ...
- B. Sport-School Interface and Sport Well-Being
 - Latent Profiles Analysis
 - Multiples regression analysis



III. A. SCALE VALIDATION

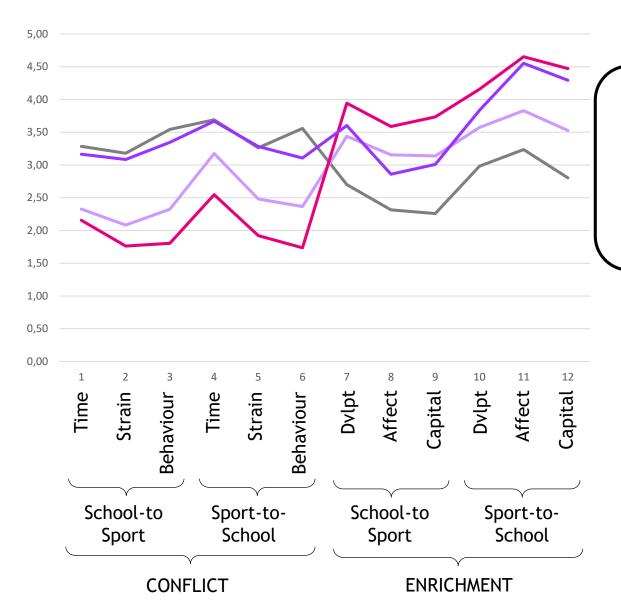
FIT INDICES										
Models	χ2	df.	CFI	TLI	AIC	BIC	ABIC	RMSEA	90%CI RMSEA	SRMR
CFA	1352,283	741	0,926	0,914	35840,829	36639,734	35992,508	0,047	0,043-0,051	0,047
ESEM	529,491	393	0,983	0,964	35587,624	37749,368	35998,050	0,031	0,023-0,037	0,014

Sport-School-School-School-School-School-Sport-Sport-Sport-School-Sport-Sport-School Sport Sport School School School Sport Sport School School Sport Sport **Enrich**^t Conflict Conflict Conflict Conflict Conflict **Enrich**^t **Enrich**^t **Enrich**^t **Enrich**^t Conflict Enrich^t Dvpt Time Strain Time Strain Affect Capital **Behaviour** Behaviour Dvpt Capital Affect CEST3 CESP1 CESP2 CESP3 CESC1 CESC2 **CESC3** CSEP3 CSEC3 EESC3 ESEC2 ESEC3 CEST2 CSEP1 CSEP2 CSEC1 EESD1 EESD2 EESD3 EESA2 EESA3 ESED1 ESED3 ESEA2 ESEA3 CSET1 EESA1 EESC2 ESED2 ESEA1 ESEC1 CSET2 EESC1

Loading factor: from 0.625 to 0.903

Cronbach's alpha: from 0.78 to 0.89

III. B. LATENT PROFILES ANALYSIS



Profile 1 : High conflict / Low Enrichment

Profile 2: Moderate mix

Profile 3: High enrichment / Low conflict

Profile 4: High mix

IDENTITIES
FEELING OF
LOAD

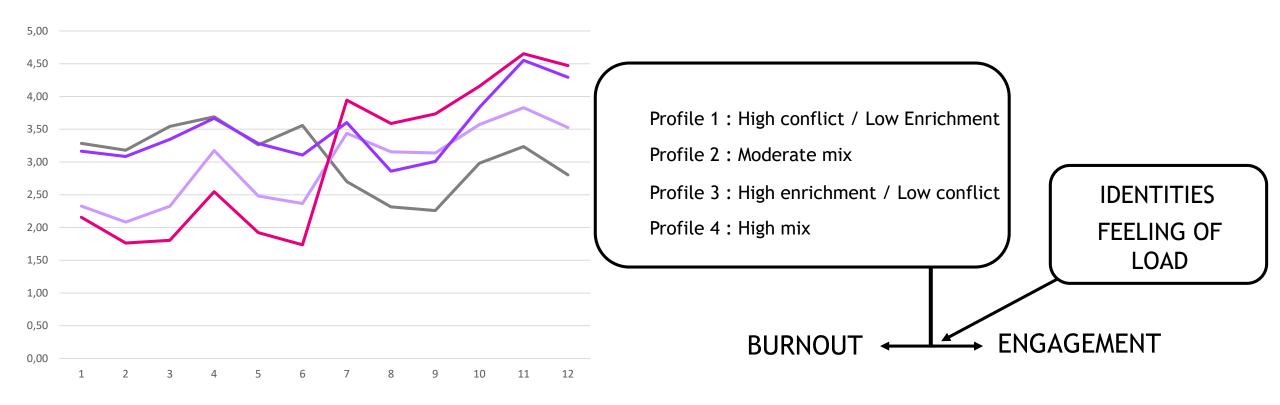
BURNOUT

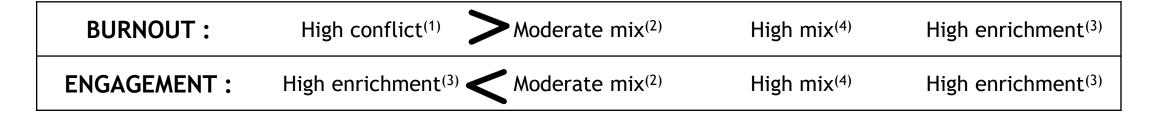
ENGAGEMENT

LPA - Burnout							
Profile 1 Profile 2		Profile 3	Profile 4				
Higher than 2 et 3	$\chi^2 = 9.90 ***$	$\chi^2 = 27.52 ***$	$\chi^2 = 2.46$				
$\chi^2 = 27.52 ***$	$\chi^2 = 6.15 **$	Lower than 1, 2 et 3	$\chi^2 = 16.33 ***$				

LPA - Engagement							
Profile 1	Profile 2	Profile 3	Profile 4				
Lower than 2, 3 et 4	$\chi^2 = 9.12 ***$	$\chi^2 = 19.70 ***$	$\chi^2 = 20.48 ***$				
$\chi^2 = 19.70 ***$	$\chi^2 = 4.20 *$	Higher than 1 et 2	$\chi^2 = 0.08$				

III. B. LATENT PROFILES ANALYSIS



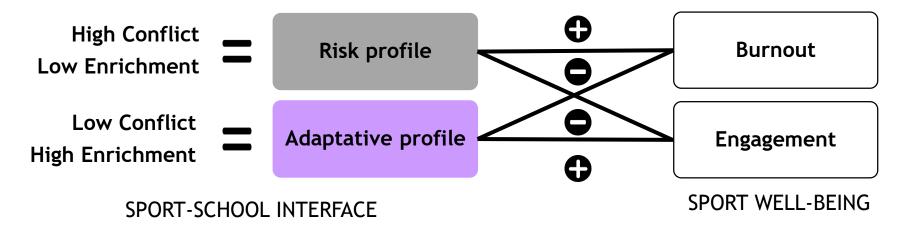


IV. A. CONCLUSION

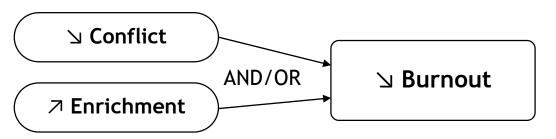
1) SSIS seems valid and measurable with French student-athletes.



2) Sport-School Interface is linked to Well-being: 2 opposite profiles and 2 intermediate profiles.



3) Burnout could be attenuated by decreasing conflict and/or increasing enrichment.



4) Engagement could be increased by improving enrichment whatever the level of conflict.



Study 1

IV. A. LIMITS

& FUTURE RESEARCH

- > Measurement: Sport well-being ------ A global and academic well-being measure
- > Small sample to test our complex model More participants (i.e. Bi-ESEM)
- > Participants with a strong athletic identity ———— More different academic fields and levels









THANKS FOR YOUR ATTENTION SOME QUESTIONS?