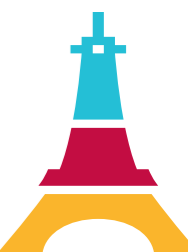




Analyse multidimensionnelle d'un environnement d'apprentissage attribuant des Open Badges



Bruno De Lièvre
Gaëtan Temperman
Catherine Palm



Les Badges ...

Connaissances

Davies & al. (2015)



mozilla

OpenBadges

Savoir-faire Savoir-être

Ma (2015)



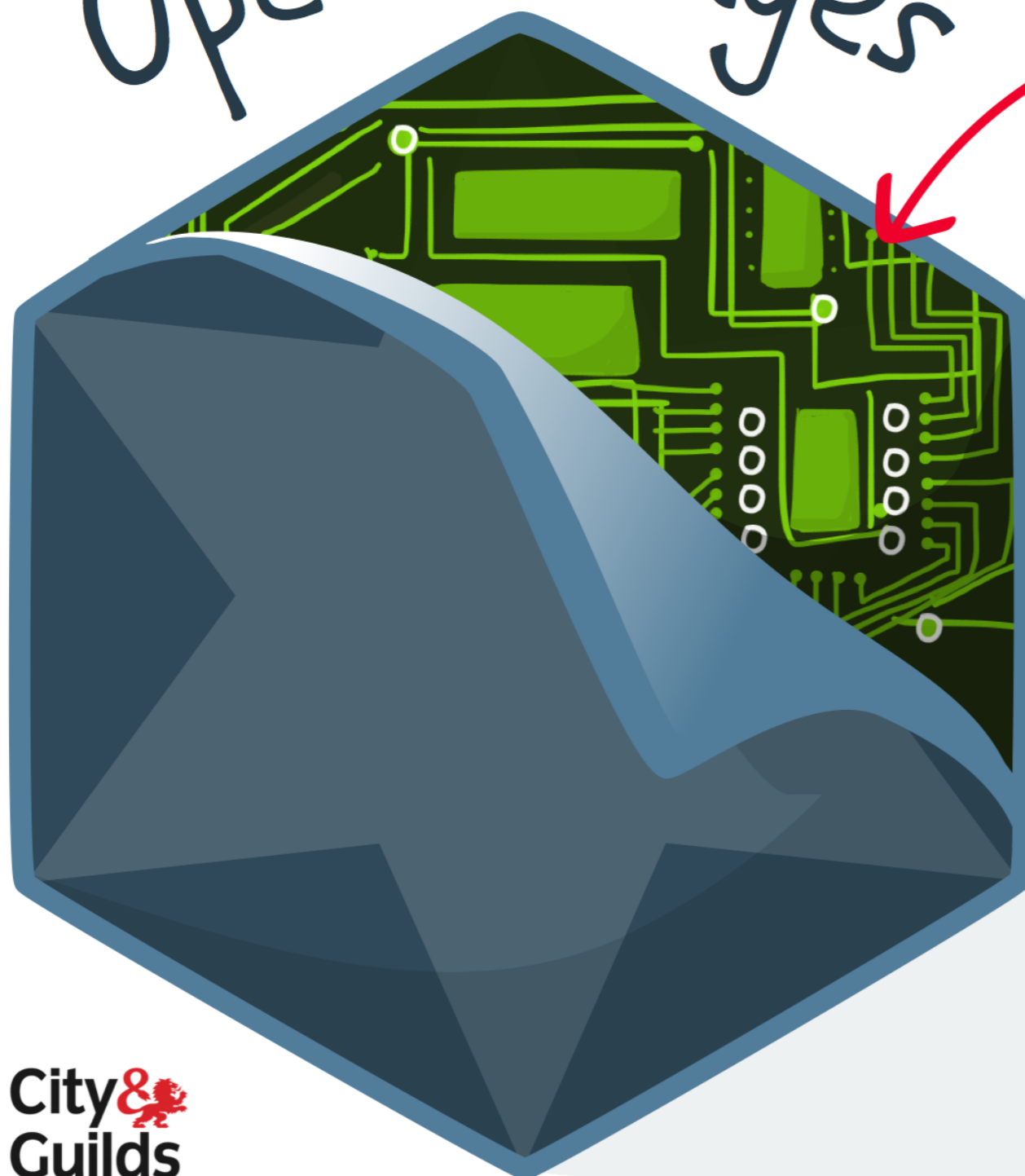
Compétences

Goligoski (2012)

Abramovich & al. (2013)

Open Badges

**THERE'S
DATA INSIDE!**

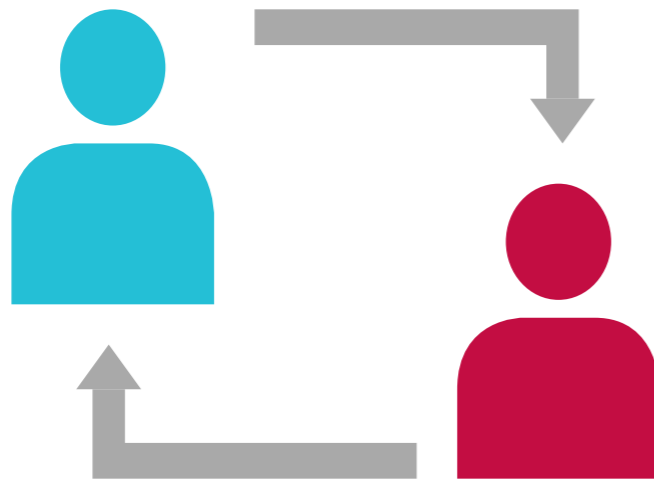


```
badge name
badge URL (description)
badge criteria
badge image
issuer
issue date
recipient
tags
alignment (standards)
expiration date
evidence URL
```

Les Badges ...

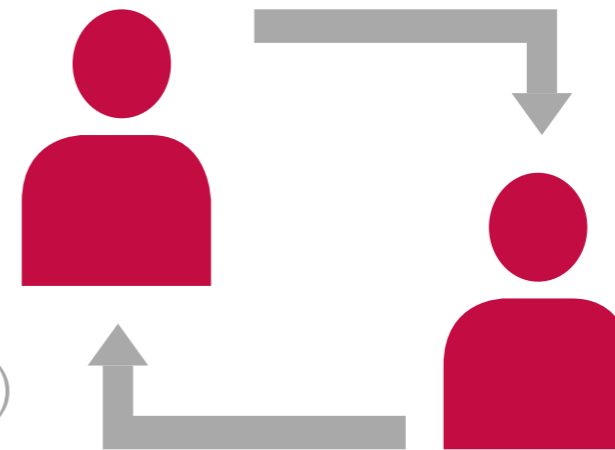
Enseignant

Dub (2015)



Etudiants

Jourde (2014)



The screenshot shows a notification from Coursera. At the top right is the Coursera logo. The main text reads: "Christopher, add your accomplishments to your LinkedIn Profile:". Below this, there are two items listed as accomplishments:

- An Introduction to Interactive Programming in Python**: Completed Jun 2013. Includes a small image of a document with code and a pencil. A blue button with the LinkedIn logo and "Add to profile" is to the right.
- Model Thinking**: Completed Aug 2013. Includes a small image of a person with a globe and a line graph. A blue button with the LinkedIn logo and "Add to profile" is to the right.

Communication

Les Badges ...

Alignement pédagogique



Ravet (2015)

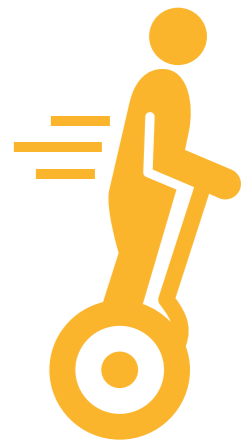
The screenshot displays the Khan Academy user interface. On the left, there are two main sections: 'Real Time Stats' with a clock icon and 'Badges' with a shield icon. The central part of the page features the 'Khan Academy' logo and a 'Vital Statistics' section with a donut chart. Below this is an 'Achievements' section with various badge icons. On the right, there is a user profile for 'elizabeth' with a green character icon, showing her join date, profile edit option, and a list of recent activities with earned badges. The 'Recent Activity' section lists three activities: 'Earned Going Transonic for Adding and subtracting complex numbers', 'Earned Picking Up Steam for Adding and subtracting complex numbers', and 'Earned Great Listener for Algebra I Worked Examples'.

Motivation Abramovich & al. (2013)



Flexibilité

Dubé (2015)



Mobilité

Les **Badges** ...

Tsai (2014)

Valeur relative



Faire la preuve

A QUI PROFITE LE BADGE ?

Le **Dispositif** et la **Méthodologie**...



Garon (2015)



Régularité
Proactivité
Productivité
Equilibré
Engagé

N=220

Connaissances

Compétences

N=110

Proactif



N=110

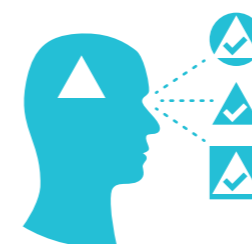
Réactif



Performance H1



Processus H2

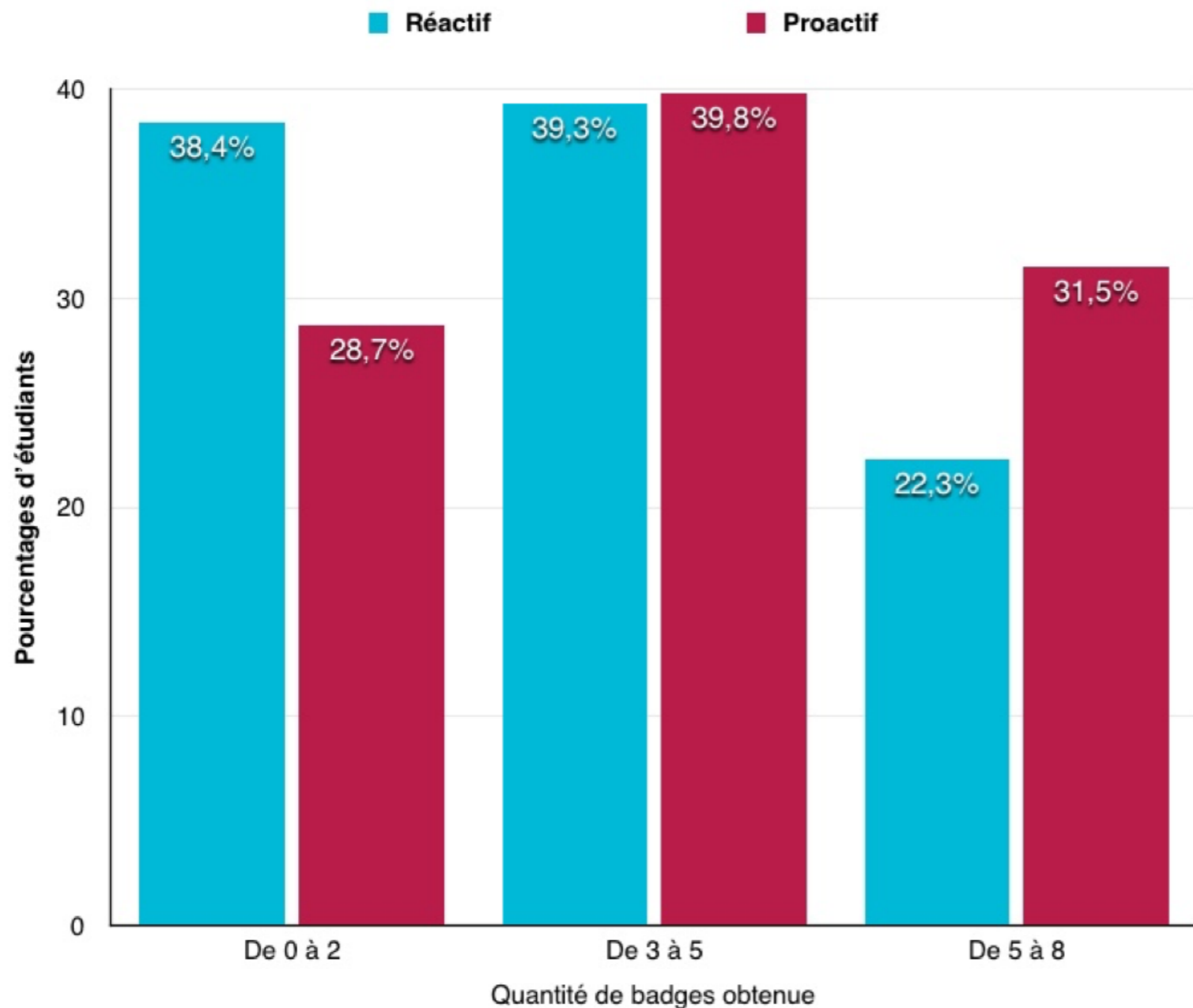


Perception H3



Les Résultats...

Performance H1



Gain Relatif

mais

corrélation

Figure 1 : Quantité de badge obtenue par les étudiants (%)

CHI : 16,79 (ddl=8) ; S à 0,032

Pearson=0,116 ; $\rho= 0,085$

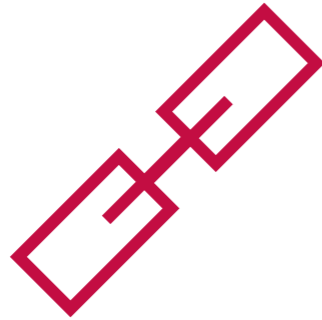
Quantité de badges



Les Résultats...



Performance **H1**



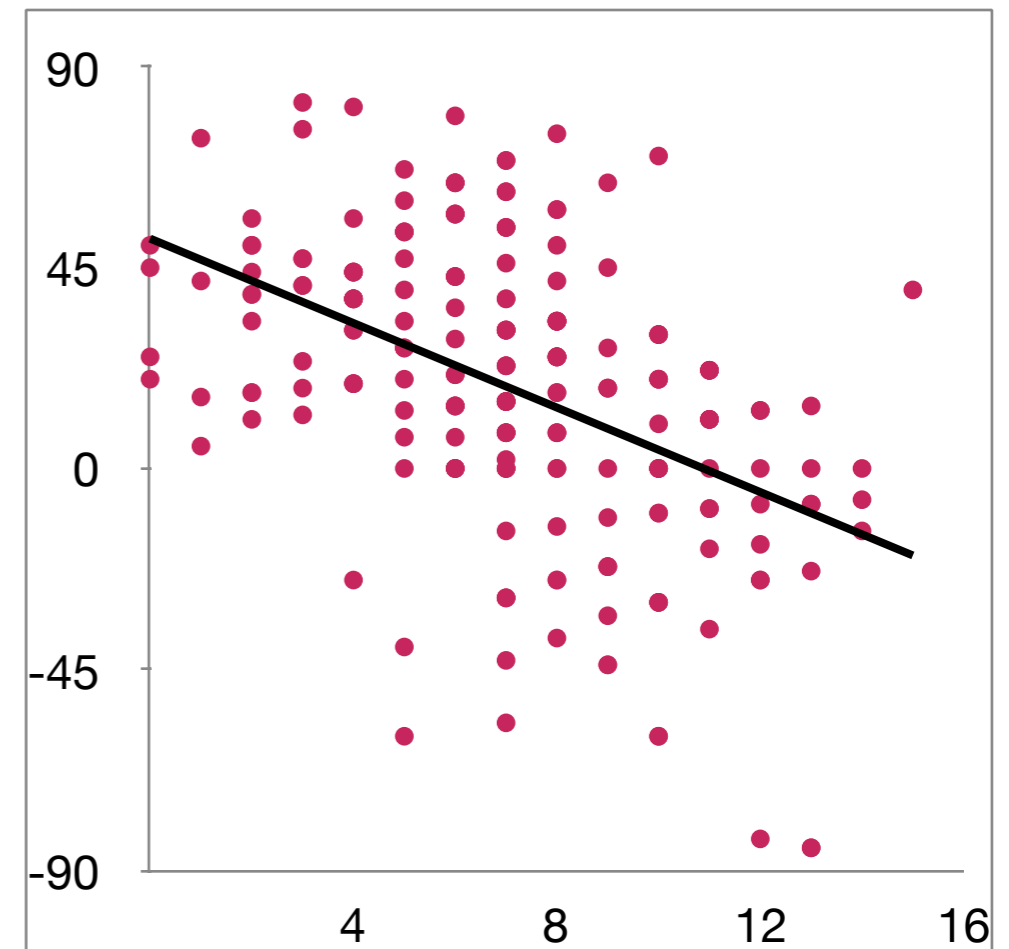
Pearson = -0,527 ; $p=0,001$

Gain Relatif +



&

Score au prétest -



Les **plus faibles** au départ profitent mieux du dispositif

Cross, Whitelock & Galley (2014)

Les Résultats...



Performance **H1**



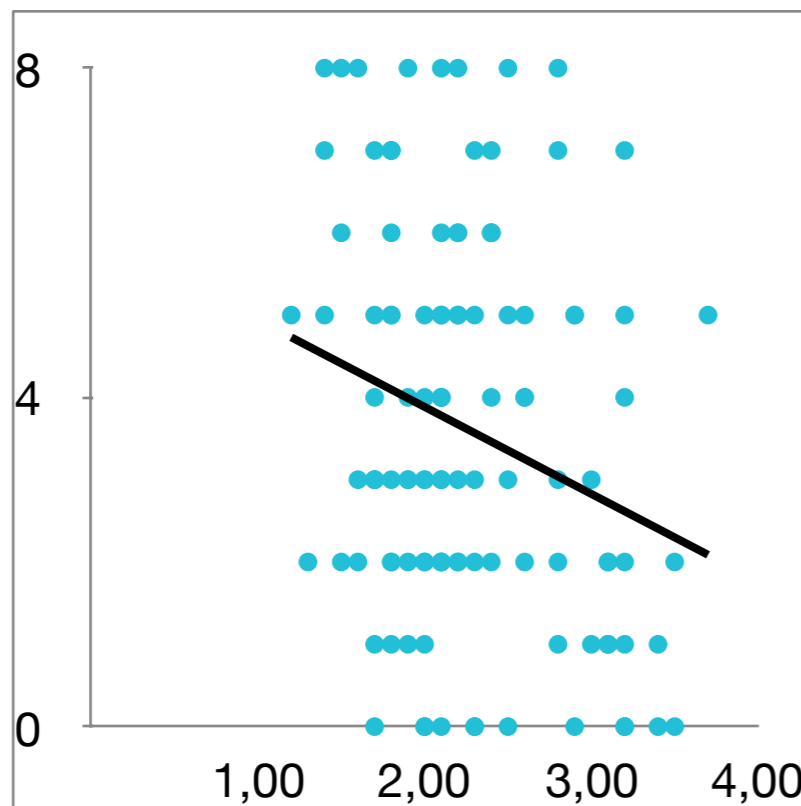
Style Fuyant



Nombre de badges Pearson = - 0,169 ; $\rho=0,012$

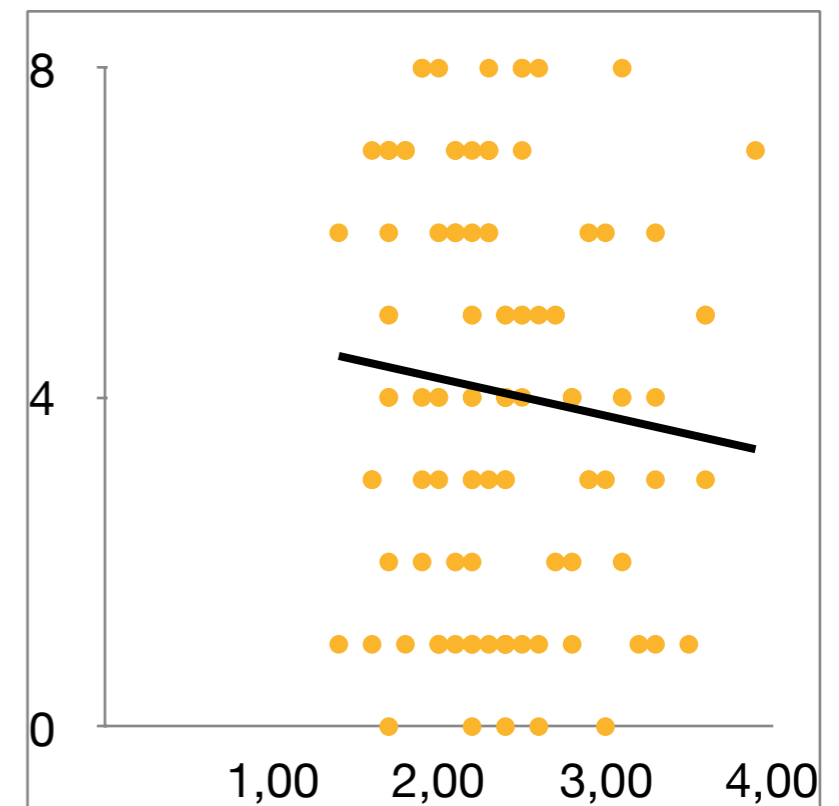


Réactif



$r = - 0,252$ $\rho=0,007$

Proactif



$r = -0,102$ $\rho=0,760$

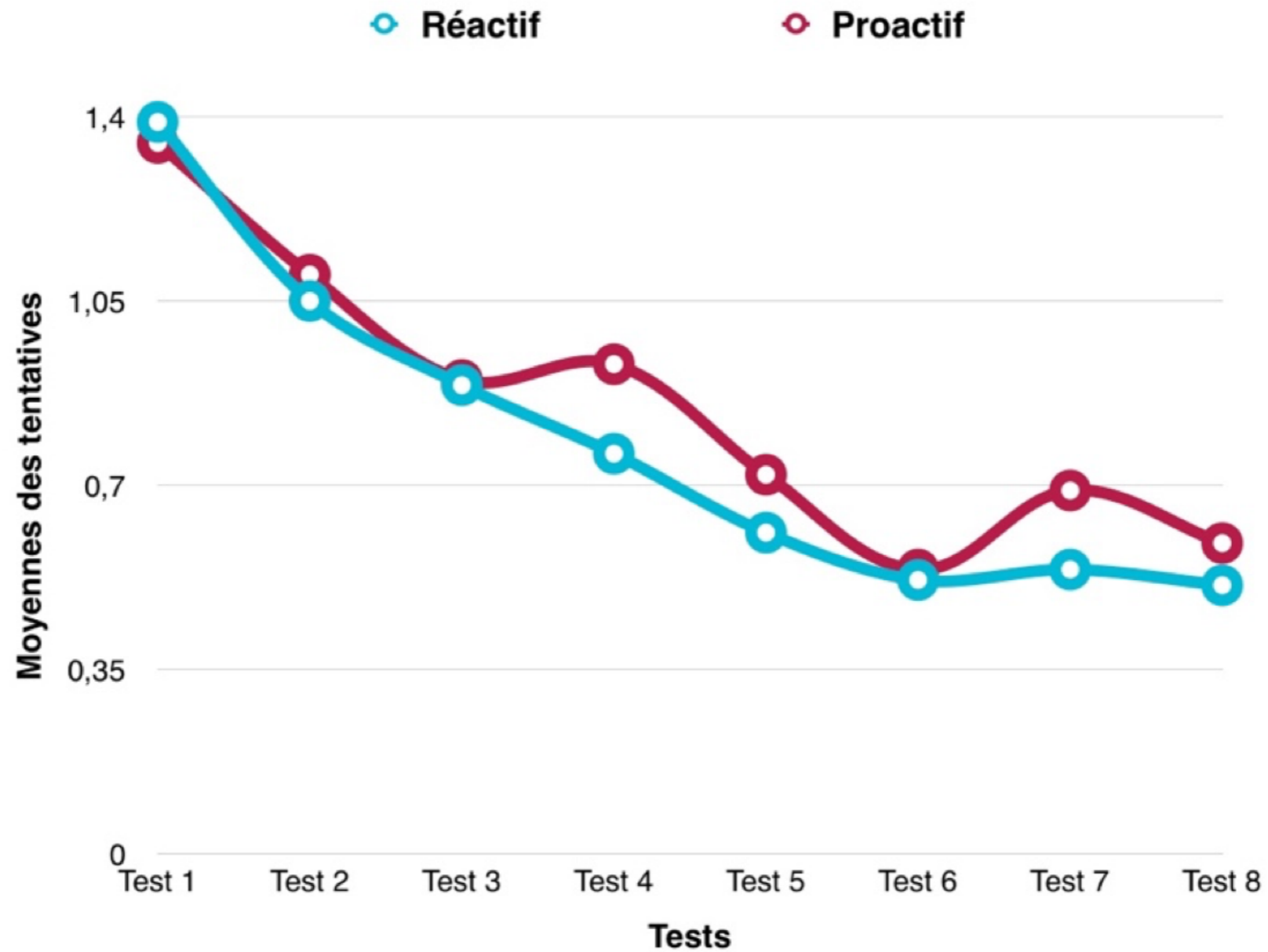
Le tutorat **proactif** est profitable aux étudiants fuyants.

Les Résultats ...



Processus

H2

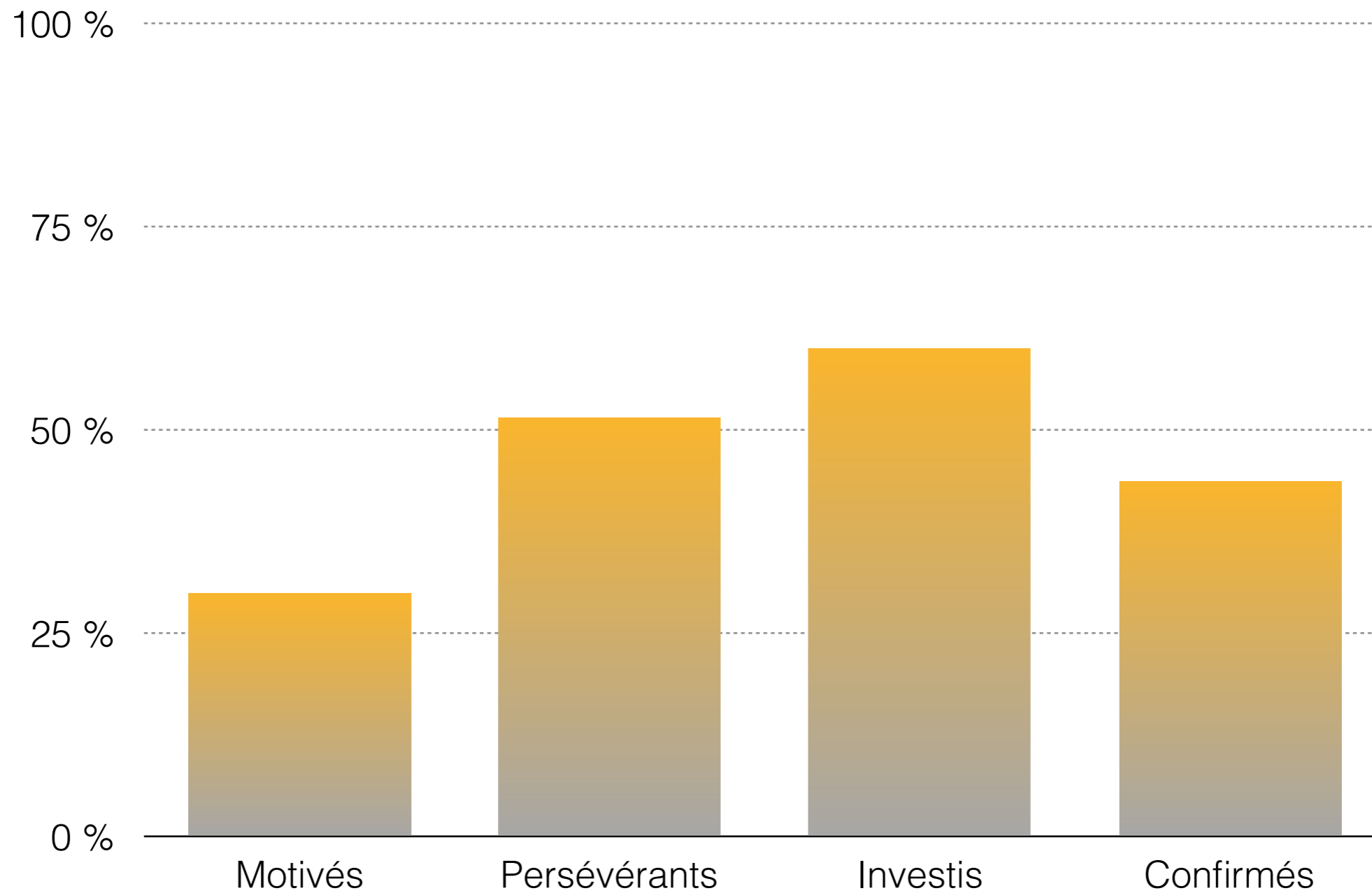


Les Résultats ...



Processus

H2



Reid & al. (2015)



Les Résultats...



Processus

H2



Garon (2015)

Compétences

Proactivité
Productivité

Auto-évaluation

Processus formatif



Processus certificatif

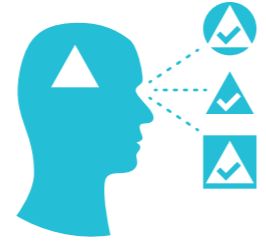


« Pas osé »
« Oublié »
« Pas compris »

Jourde (2014)

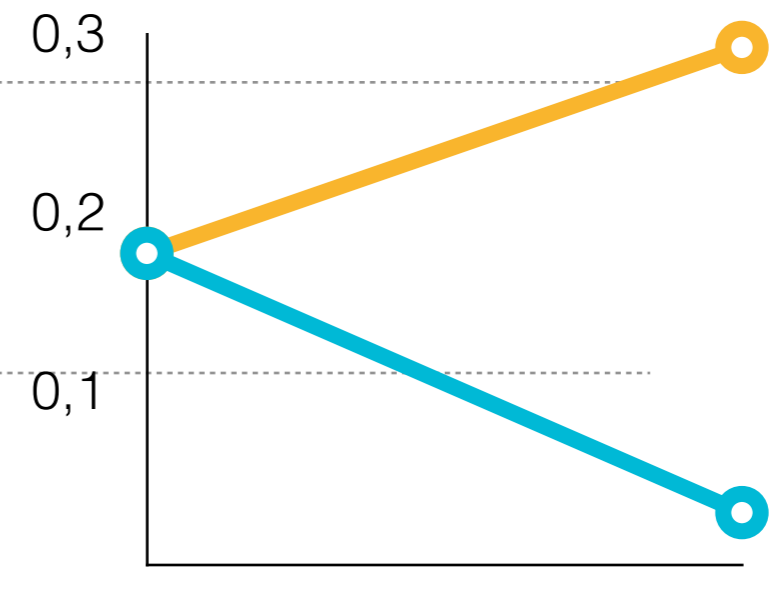
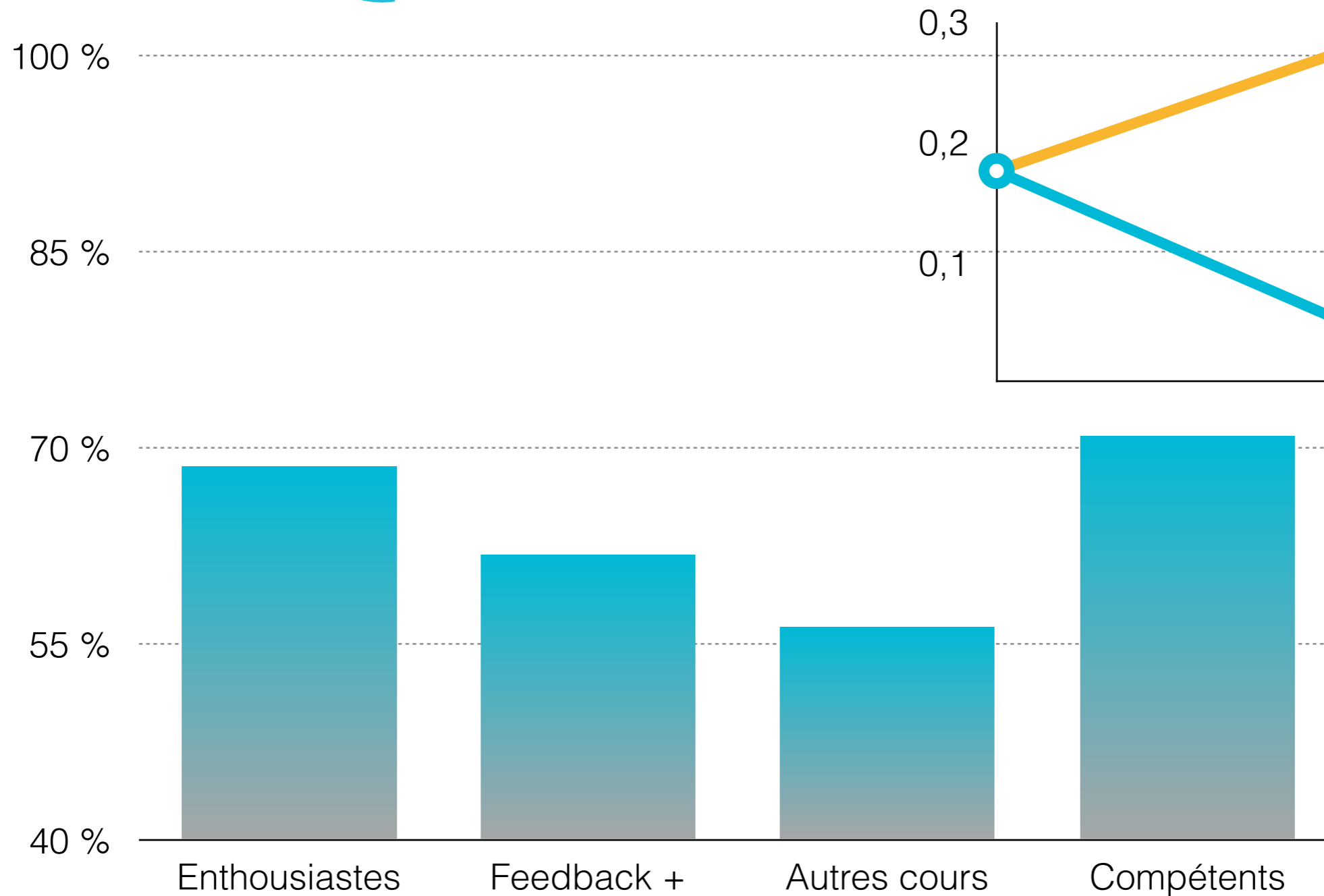
Reid & al. (2015)

Les Résultats ...

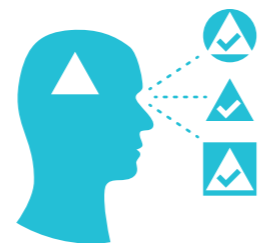


Perception

H3

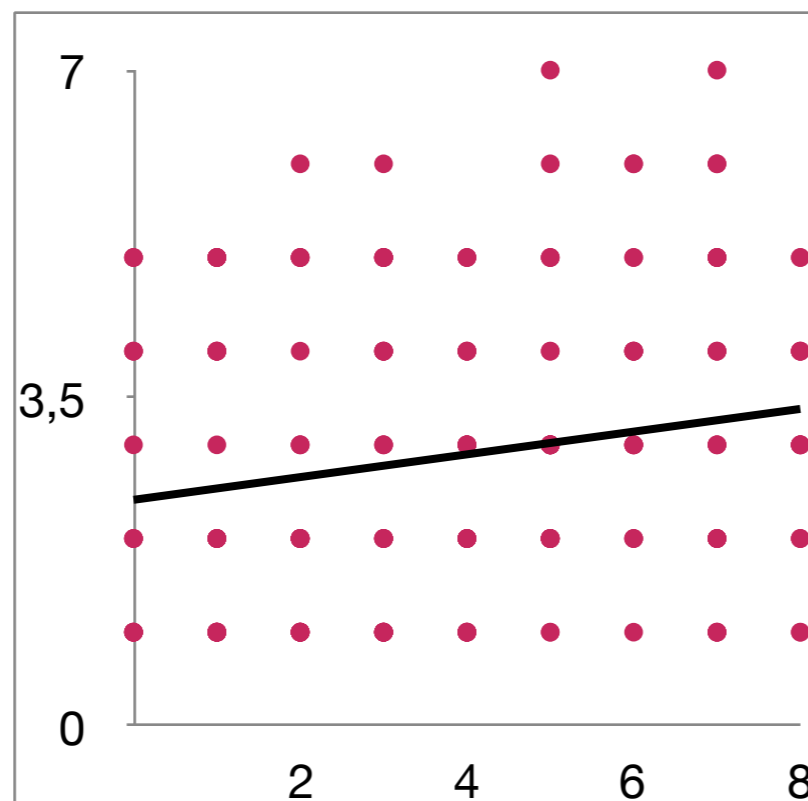


Les Résultats...

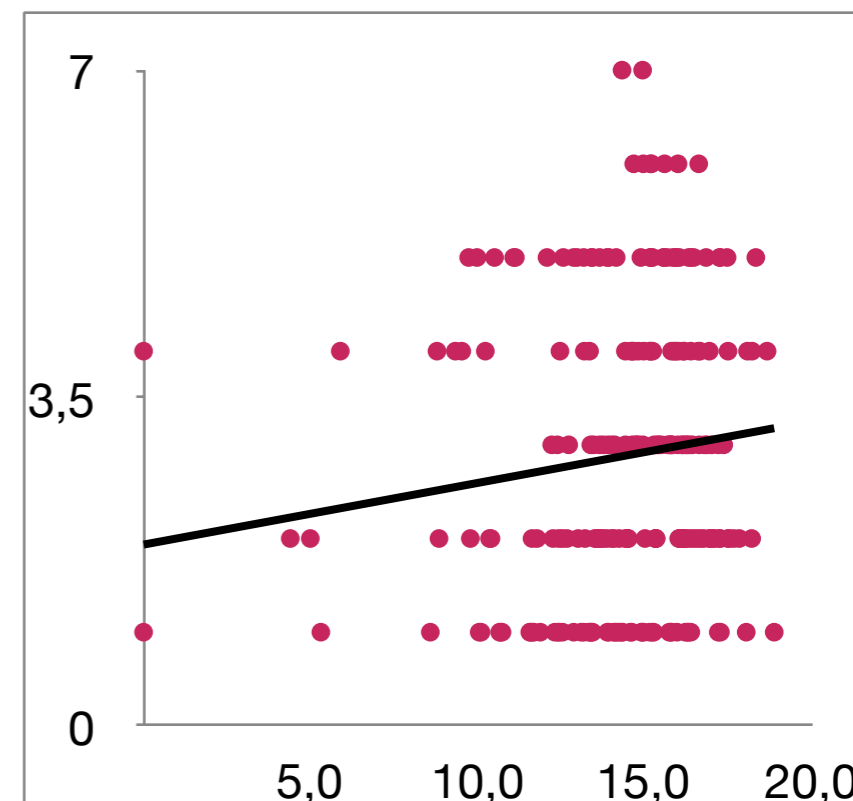


Perception H3

20 %
stressés



Nombre de **badges** obtenus



Moyennes des notes aux **tests**

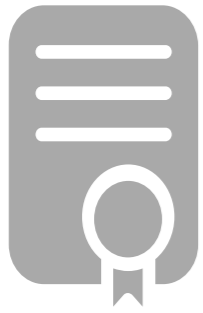
Badges ? Temps limités ?



Stress productif ?



Quelles **conclusions** ?



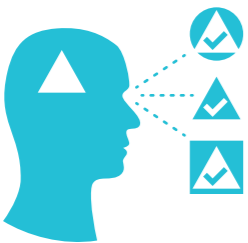
Badges - MOOC : visibilité de demain



Gamification : impacts à confirmer



Appropriation : question de sens



Attention : interprétation des perceptions



Tutorat : Effet de la proactivité

Analyse multidimensionnelle d'un environnement d'apprentissage attribuant des Open Badges

Merci de votre attention



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Ga tan Temperman
Catherine Palm

