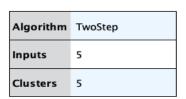
1

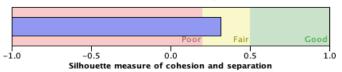
Supplemental Materials

Results from a Two-Step Cluster Analysis using Kelly, et al. STEM Professional Identity Model (Kelly et al. 2020)

Model Summary



Cluster Quality



Clusters

Input (Predictor) Importance 1.0 0.8 0.6 0.4 0.2 0.0

Cluster	5	3	4	2	1
Label	Achievement	Undefined	Foreclosure	Moratorium	Moratorium
Description					
Size	35.6% (128)	27.8% (100)	15.8%	13.3%	7.5%
Inputs	Post_Affirmation_	Post_Affirmation_	Post_Affirmation_	Post_Affirmation_	Post_Affirmation_
	Total	Total	Total	Total	Total
	Post_Commit_Total	Post_Commit_Total	Post_Commit_Total	Post_Commit_Total	Post_Commit_Total
	18.09	14.56	14.72	10.81	5.63
	Post_In-Depth_Total	Post_In-Depth_Total	Post_In-Depth_Total	Post_In-Depth_Total	Post_In-Depth_Tota
	16.17	15.83	11.53	11.31	10.74
	Post_Reconsider_	Post_Reconsider_	Post_Reconsider_	Post_Reconsider_	Post_Reconsider_
	Commit_Total	Commit_Total	Commit_Total	Commit_Total	Commit_Total
	Post_Practices_Total	Post_Practices_Total	Post_Practices_Total	Post_Practices_Total	Post_Practices_Total
	14.03	11.52	12.30	9.06	9.11

Cluster 1 – Moratorium

Cluster Comparison

Moratorium(1) Post_Affirmation_Total Post_Commit_Total Post_In-Depth_Total Post_Reconsider_Commit_Total Post_Practices_Total

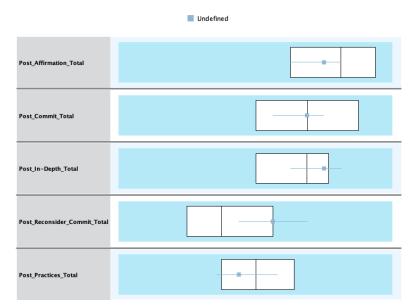
Cluster 2 - Moratorium

Cluster Comparison

Moratorium(2) Post Affirmation Total Post_Commit_Total Post_In-Depth_Total Post_Reconsider_Commit_Total Post_Practices_Total

Cluster 3 – Undefined

Cluster Comparison



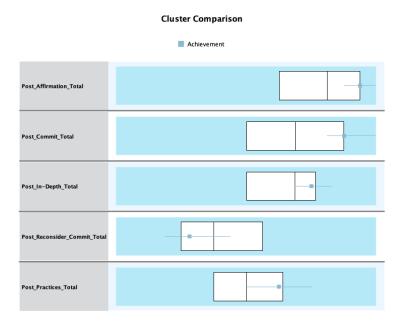
Cluster 4 – Foreclosure

Cluster Comparison

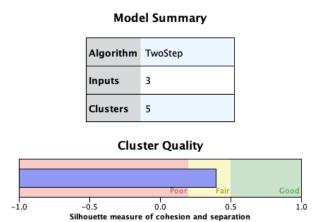
Foreclosure Post_Affirmation_Total Post_Commit_Total Post_In-Depth_Total Post_Practices_Total

Cluster 5 – Achievement

4



Results from a Two-Step Cluster Analysis using Crocetti et al. STEM Professional Identity Model (Crocetti et al. 2010)



Clusters

Input (Predictor) Importance 1.0 0.8 0.6 0.4 0.2 0.0

Cluster	4	1	5	2	3
Label	Searching Moratorium	Foreclosure	Achievement	Diffuse	Moratorium
Description					
Size	33.3% (120)	20.3%	18.6%	17.2%	10.6%
Inputs	Post_Commit_Total 15.34	Post_Commit_Total 16.95	Post_Commit_Total 18.39	Post_Commit_Total 11.60	Post_Commit_Total 6.63
	Post_In-Depth_Total 16.50	Post_In-Depth_Total 12.53	Post_In-Depth_Total 16.69	Post_In-Depth_Total 11.29	Post_In-Depth_Tota 11.32
	Post_Reconsider_ Commit_Total	Post_Reconsider_ Commit_Total	Post_Reconsider_ Commit_Total	Post_Reconsider_ Commit_Total	Post_Reconsider_ Commit_Total

Cluster 1 – Foreclosure

Cluster Comparison

Foreclosure Post_Commit_Total Post_In-Depth_Total Post_Reconsider_Commit_Total

Cluster 2 – Diffuse

Cluster Comparison

Diffuse Post_Commit_Total Post_In-Depth_Total Post_Reconsider_Commit_Total

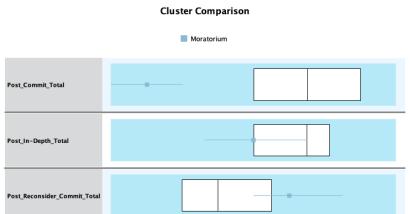
|Assessing the Fidelity of STEM Professional Identity Statuses using Cut-Off Scores for Small Populations

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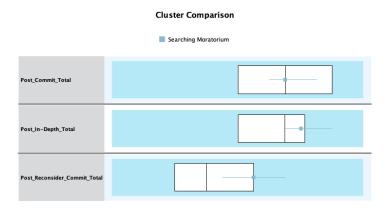
REVUE CANADIENNE DE DÉVELOPPEMENT DEVELOPMENT | DE CARRIÈRE

Cluster 3 – Moratorium

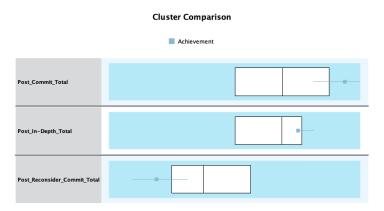
6



Cluster 4 – Searching Moratorium



Cluster 5 – Achievement

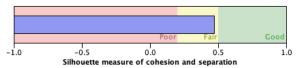


Results from a Two-Step Cluster Analysis using Marcia's STEM Professional Identity Model (Marcia 1966)

Model Summary

Algorithm	TwoStep
Inputs	2
Clusters	4

Cluster Quality



Clusters

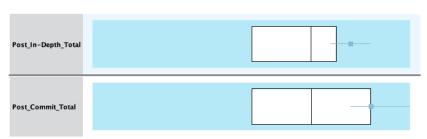
Input (Predictor) Importance 1.0 0.8 0.6 0.4 0.2 0.0

Cluster	1	2	3	4
Label	Achievement	Foreclosure	Moratorium	Diffuse
Description				
Size				
	32.5% (117)	27.5%	21.4%	18.6%
Inputs				
	Post_In-Depth_Total 17.02	Post_In-Depth_Total 12.90	Post_In-Depth_Total 15.79	Post_In-Depth_Total 9.84
	Post_Commit_Total 18.12	Post_Commit_Total 16.36	Post_Commit_Total 11.45	Post_Commit_Total 9.84

Cluster 1 – Achievement

Cluster Comparison

Achievement



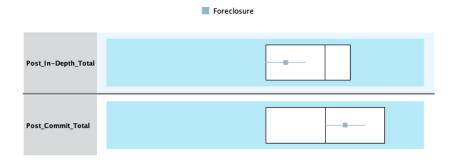
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REVUE CANADIENNE DE DÉVELOPPEMENT

8

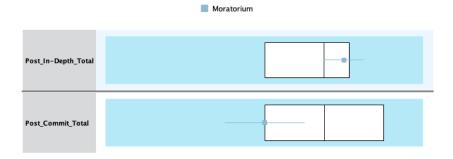
Cluster 2 – Foreclosure

Cluster Comparison



Cluster 3 – Moratorium

Cluster Comparison



Cluster 4 – Diffuse

Cluster Comparison

