

# Off-Task Behavior in Narrative-Centered Learning Environments

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GROUP F

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# Introduction

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- **Topic**

- Narrative Learning Environments
  - Crystal island
- Off-task behavior

- **Methodology**

- Participants
- Design

- **Results of the study**

# Results

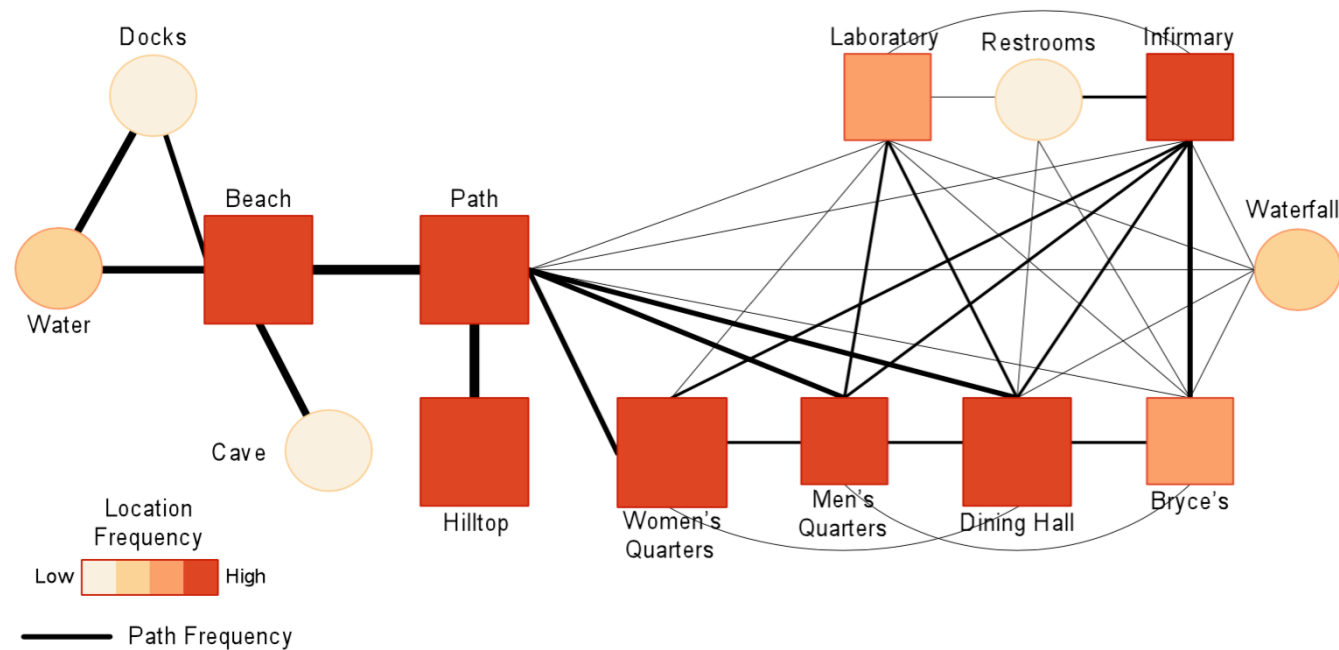
**Table 1.** CRYSTAL ISLAND location frequencies correlated with post-test scores.

○ – Denotes a location included in the off-task behavior definition.

Location (mean freq.)	Pre-test score correlation			Post-test score correlation		
	<i>r</i> (92)=	<i>p</i>		<i>r</i> (92)=	<i>p</i>	
○ <b>Waterfall</b> , <i>M</i> =1.1, <i>SD</i> =1.1	-0.3626	<.0001	*	-0.4341	<.0001	*
<b>Beach</b> , <i>M</i> =6.8, <i>SD</i> =4.2	-0.3469	0.001	*	-0.2600	0.014	*
○ <b>Cave</b> , <i>M</i> =1.4, <i>SD</i> =1.3	-0.3400	0.001	*	-0.1833	0.084	
<b>Path</b> , <i>M</i> =7.9, <i>SD</i> =3.6	-0.2783	0.008	*	-0.1381	0.194	
<b>Hilltop</b> , <i>M</i> =2.7, <i>SD</i> =1.8	-0.1854	0.080		-0.1153	0.279	
○ <b>Restrooms</b> , <i>M</i> =0.7, <i>SD</i> =0.6	-0.1764	0.096		-0.2037	0.054	
<b>Docks</b> , <i>M</i> =1.7, <i>SD</i> =2.0	-0.1629	0.125		-6.1700	0.108	
<b>Women's Quarters</b> , <i>M</i> =2.1, <i>SD</i> =1.3	0.0615	0.564		0.1536	0.140	
<b>Bryce's House</b> , <i>M</i> =1.6, <i>SD</i> =1.2	0.0642	0.547		0.1682	0.113	
<b>Laboratory</b> , <i>M</i> =2.9, <i>SD</i> =2.5	0.1055	0.322		0.2030	0.050	*
<b>Dining Hall</b> , <i>M</i> =2.9, <i>SD</i> =2.2	0.1422	0.181		0.2473	0.019	*
○ <b>Water</b> , <i>M</i> =2.4, <i>SD</i> =2.3	0.1734	0.102		-0.1973	0.062	
<b>Infirmary</b> , <i>M</i> =3.4, <i>SD</i> =1.9	0.2480	0.018	*	0.4638	<.0001	*
<b>Men's Quarters</b> , <i>M</i> =3.9, <i>SD</i> =1.9	0.2757	0.009	*	0.4540	<.0001	*

Rowe, J. P., McQuiggan, S. W., Robison, J. L., & Lester, J. C. (2009, July). Off-Task Behavior in Narrative-Centered Learning Environments. In *Proceedings of AIED 2009*, Brighton, UK (pp. 99-106).

# Results



**Figure 1.** Path analysis link graph from the narrative experimental condition.

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# Pros and Cons

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## Pros

- Convincing motivation for new analysis
- Clear language, easy to read
- Experiment setup was well explained
- Good introduction to NLE research

## Cons

- Concept of NLE is not clear
- Research questions ill defined
- Tests used were not justified
- Assumptions too broad
- Path analysis under-developed
- Data presentation require statistics background

# Final Decision

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## Neutral

Although the paper was not suitable for non-experts, it was not too technical or specific and with some major changes it can be suitable for non-experts.

### *Suggestions:*

- Give a brief explanation of what NLE means.
  - Clearly justify choice of tests and methodology.
  - Provide different representations of the data.
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