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You'll face me: an investigation into improving puffin crossing safety by controlling PDU placement

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1. Appendices

1.1. Appendix A- Raw Data from Sites 1 and 2

Table 1: Site 1 and Site 2 raw data

Puffin Crossing Data Collection Sheet

63	53						
	Α	В	C	D	E	Total	
Blind Zone	2	2	3	6	16	29	
Visible Zor	6	5	2	2	4	19	
				Comm	nonte		
						ould run across the	road without looking at the PDU or pressing the butte
	Looked at PDU	Uidn't look at PDU		Occasionally After the hould looking at the Crossing is to	someone wo ur mark there e PDU this n wider than 5	was a noticeable in nay be due to stude tiles, it was actually	ncrease in people standing in the blind zones and not ents running late to lectures trying to get across quickl / 7 tiles. I included the results for the people standing i
Blind Zone	at PDU	look		Occasionally After the hould looking at the Crossing is with the 6th/7th ti	someone we ar mark there e PDU this n wider than 5 ile as part of	was a noticeable in nay be due to stude tiles, it was actually tile A. This is beca	ncrease in people standing in the blind zones and not ents running late to lectures trying to get across quickl
	at PDU 7	look at PDU		Occasionally After the hould looking at the Crossing is with the 6th/7th ti	someone we ar mark there e PDU this n wider than 5 ile as part of	was a noticeable in nay be due to stude tiles, it was actually tile A. This is beca	ncrease in people standing in the blind zones and not ents running late to lectures trying to get across quickl r 7 tiles. I included the results for the people standing i use the blind zone is really close to the kerb when you
Visible Zor	at PDU 7	look at PDU		Occasionally After the hould looking at the Crossing is with the 6th/7th ti	someone we ar mark there e PDU this n wider than 5 ile as part of	was a noticeable in nay be due to stude tiles, it was actually tile A. This is beca	ncrease in people standing in the blind zones and not ents running late to lectures trying to get across quickl r 7 tiles. I included the results for the people standing i use the blind zone is really close to the kerb when you
Visible Zor	at PDU 7	look at PDU 22		Occasionally After the hould looking at the Crossing is with the 6th/7th ti	someone we ar mark there e PDU this n wider than 5 ile as part of	was a noticeable in nay be due to stude tiles, it was actually tile A. This is beca IU so most people	ncrease in people standing in the blind zones and not ints running late to lectures trying to get across quickl i 7 tiles. I included the results for the people standing i use the blind zone is really close to the kerb when you were standing is the visible zone.
Blind Zone Visible Zor Total	at PDU 7	look at PDU 22		Occasionally After the hould looking at the Crossing is the 6th/7th ti	someone we ar mark there e PDU this n wider than 5 ile as part of	was a noticeable in hay be due to stude tiles, it was actually tile A. This is becand so most people	ncrease in people standing in the blind zones and not ents running late to lectures trying to get across quickl y 7 tiles. Lincluded the results for the people standing i use the blind zone is really close to the kerb when you were standing is the visible zone.

Ibrahim Aliouche 10396026

Puffin Crossing Data Collection Sheet

10	Looked at	Didn't look		ide the blind zone. Thir ir b oq it dangerow tostand to	ecaure it ir quite clare to the kerb and a lot of a clare to the edge.	f bwer qu		
Blind Zone	PDU 0	at PDU	were mainly elderly or m		ind took their time crossing the road. The ped e generally cautious crossing the road. Mothe y had prams with them.			
Visible Zo	25	6	ree but ar explained aba	vo, thoro are ather factor.	room to have the derired effect of making it o r that may be affecting the data.			
Total	25	9	Posplo uha didn't lask at the PDU either wed the fact that athers were crazzing as an indicator that it was a fear sau the road was clear and crazzed without wing the push button					
				ļ. J				
				Date	Wednesday 11/03/2015			
				Location	Mutley Plain			
				Start tim	10:00am			
				End time	11:00am			

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1.2. Appendix B- Risk Assessment

Table 2: Risk Assessment for Data collection

General Risk Assessment Form (Revised May 2014)

Hazard at Personnel Figs No. at Controls in Place at Present Controls in Place at Present Image: Present at Present at Present Image: Present at Pr	Date: 27/01/15	Assessed by:	pess	Ibrahim Aliouche	Activity/Location	Modul	Module: PRME 304 Individual roadside	Module: PRME 304 Individual roadside survey	,		
1 Barriers around the puffin crossing. Also this experiment requires me to observe from a distance so I should be nowhere near the side of the road. 1 Look both ways before crossing and use the puffin crossing appropriately. 1 Wear correct footwear and stay back from the edge of the road. 1 As I will be standing a fair distance back, I should remain inconspicuous. In the event that a pedestrian does notice me, I can explain that no personal information is being recorded, simply the position they standin as they wait to cross the road.	Hazard	No. at Risk		Controls in Place	at Present		E E	Further Controls Necessary	Residual Risk Rating	Responsible Person	
1 Look both ways before crossing and use the puffin 4 None NI/A crossing appropriately. Do not step off the curb unless you are crossing. 1 Wear correct footwear and stay back from the edge 1- None NI/A of the road. 1 As I will be standing a fair distance back, I should remain inconspicuous. In the event that a pedestrian does noticeme, I can explain that no personal information is being recorded, simply the position they standin as they wait to cross the road.	Being hit by traffic swerving on to pavement.	-	Barrier experii so I sh	s around the puffin cros ment requires me to obs ould be nowhere nearth	sing. Alsothis eve from a distance ne side of the road.	4		None	N/A	Ibrahim Aliouche	
1 Wear correct footwear and stay back from the edge 1- None N/A of the road. 2 None N/A 1 will be standing a fair distance back, I should remain inconspicuous. In the event that a pedestrian does notice me. I can explain that no personal information is being recorded, simply the position they standin as they wait to cross the road.	Being hit by traffic while crossing the road.	-	Crossif Do not	ooth ways before crossin ng appropriately. t step off the curb unless	ig and use the puffin you are crossing.	4		None	N/A	Ibrahim Aliouche	
1 As I will be standing a fair distance back, I should 1 None N/A remain inconspicuous. In the event that a pedestrian does notice me, I can explain that no personal information is being recorded, simply the position they standin as they wait to cross the road.	Adverse weather conditions making surfaces slippery.	_	Weard	correct footwear and stay road.	y back from the edge	- 5	2:	None	N/A	Ibrahim Aliouche	
	Pedestrians noticing my survey and objectingto being monitored.	-	As I will remain does n inform they st	Il be standing a fair dista i inconspicuous. In the e rotice me, I can explaint ation is being recorded, i and in as they wait to cr	ance back, I should went that a pedestrian that no personal simply the position oss the road.	-		None	N/A	Ibrahim Allouche	

1.3. Appendix C- Significance tests

Table 3: Significance test for 2 population proportions

	Looked at PDU (x)	Didn't look at PDU	Total (n)
Site 1 P1	18	30	48
Site 2 P2	25	9	34

Z test for 2 population proportions

P1hat	0.375
P2hat	0.735294118
Phat	0.524390244
1/n1+1/n2	0.050245098
Z	-3.218530609
р	0.0006
Significance level	0.05
P<0.05	Result is significant

Table 4: Binomial test of significance

Binomial Test			
Variable	Looked at PDU		
N	34		
Observed K	25		
Expected K	12.75		
Assumed P	0.375		
Observed P	0.735294118		
Significance level	0.05		
Binomial distribution	0.0000214		