# Nudging Procrastination Away: The use of simplification and reminders in a dissertation project

Panagiotis Giannarakis, Emanuela Lotti & Jana Sadeh

University of Southampton

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# Intro

### Introduction

- Literature on procrastination in education established a clear (negative) link between procrastination and grades. [5, 11, 6, 1, 7, 2, 4]
- Clear impetus for educational interventions to encourage students to spread work more evenly over semesters and reduce procrastination on coursework.
- Few attempts to develop interventions, some found success [9] and [8] using in class verbal prompts and financial rewards while others using social norms and information did not [7, 10, 3] similarly use goal setting coupled with reminders and also find no effect of the intervention.
- Procastination driven by anxiety, unfamiliarity & long time frames
- Behavioural literature suggests that simplification and timely feedback interventions can be very powerful tools to influence behaviour [13, 12]

Research Question: Can we improve student grades and reduce submission times by nudging their procrastination?

Institutional Context

- University of Southampton, selective Russell Group University in the UK.
- 3rd year undergraduate module. c.a. 150 students.
- Semester-long research project: Literature Review
- Students assigned supervisors based on topic selected.
- Students manage number of and frequency of meetings and how they spread out the work.
- Supervisors mark their own students.
- In 2022 1 in 4 students submitted late (extension) implications on academic staff, professional services staff and students themselves.

# Experimental Design

Simplification of long-term assessment: Task List

- Forward-feedback design, ideal benchmark of what a student should be achieving each week if they want to do well
- $\cdot$  Tool available to all
- Hosted on the VLE/LMS for the module/class

Nudge: weekly reminders of week tasks

- Email delivered to each student every Thursday for 11 weeks
- Text reminded them to go to the task-list and complete the weekly tasks for the week
- Only treated group received this

The Nudge

### Figure 1: Task List

	TITLE	PRIORITY				
	Week 1: Task 3: Start reading the most important literature in your research area		Week 5: Task 1: You should start building your portfolio of academic papers in your research area and keep	1		Week 9: Task 3: You should have finalised your portfolio of academic papers in your research area and in your research topic. It's time to start
_	Week 1: Task 2 Check the available		exploring the literature in your research topic.			writing up your dissertation!
U	page		Week 6: Task 1: You should have built			Week 10: Task 1: You should be in a very good stage with writing up your
	Week 1: Task 1 Attend or watch the recordings of the 3 sessions: Intro to Dissertation / Intro to ECON3036 /		a good portfolio of academic papers in your research area and start building a portfolio of academic papers in your research topic.			literature review in your research area and start writing up your literature review in your research topic
	Library Skills Session		Week 7: Task 1: You should have built			Week 11: Task 1:Task 1: You should have almost completed your literature
	Week 2: Task 1: Attend of Waten the recording of the 2-hours session "Understanding a Paper in Depth session".	I	a very good portfolio of academic papers in your research area and start building a good portfolio of academic papers in your research topic.		0	review in your research area, be in a very good stage with writing up your literature review in your research topic and start writing up your introduction and your conclusion.

#### Figure 2: Task List for the Treated Group

#### Task 1: Attend or watch the recordings of the 3 sessions: 💿 🗚

#### Enabled: Statistics Tracking Intro to ECON3036, ECON3037, ECON3038.

Details in this session you will have the opportunity to understand in depth the structure of the third-year dissertation. You will see the structure of ECON0305 Dissertation Literature Review, ECON0307. Dissertation Research Project and ECON0308 Dissertation Research Topics. You will understand very well what the differences between ECON0307 & ECON3038 are (you need to choose one of those modules in semester 2) and by attending the session you will be able to do a very informative choice between those 2 modules.

#### Intro to ECON3036 Dissertation Literature Review.

Details in this session you will have the opportunity to understand in depth the structure of the ECON3036 Dissertation Liferature Review You will understand what a review of past research papers is and how you will need to structure your literature review You will understand and be able to identify in an economics academic paper what is a research question, motivation, contribution, methodology, emprincit indrings. What the best literature review strategy is and why is important to be able to review past literature. You will see how to search effectively for academic papers relevant to your topic area and you will be informed about detailines and submission procedure of your final report.

#### Library Skills Session.

Details: in this session you will have the opportunity to understand in depth the available resources in Hartley Library and how these resources can support your dissertation research. This session will demonstrate the use of a wide range or feosurces appropriate to the subject area. It will show you how to independently find the information needed and to use appropriate quality criteria to critically evaluate information from any source to determine authority, bias, etc. This session will demonstrate how to do accurate and appropriate criting and referencing with appropriate paraphysising and it will outling the procedure for completing the assessed Online Library Test (5% of your mark).

#### Once you have completed this task don't forget to tick it off your Ckeck List

#### Task 2: Check the available resources in ECON3036 Blackboard page. 💿 🗚

Details: it is very important to check the available resources in ECON3036 Blackboard page. You will find them very useful during the development of your project.

Start your navigation with the tab "Module Information" check the Calendar of Events to get an idea of the ECON3030 plane, read the ECON3030 plane) is separated to do in ECON3030 plane). The Ubarry and also notes for the online test worth 5% of your mark. In the Literature Review resources watch firstly the available videos to understand now to write a literature review. Check all the other resources and are get constant of the sources of a trafter get that are review. Check all the other resources and are get constant of the other resources and are get constant of the sources and are get constant.

#### Once you have completed this task don't forget to tick it off your Ckeck List

The study timeline:



### Experiment Outline

- Stage 1: Time preference MPL (1 month delay from today)
- Stage 2: Risk preference (Eckel Grossman 6 gamble)
- Stage 3: Time preference MPL (1 month delay in 6 months)
- Stage 4: CRT
- Stage 5: Time preference MPL (6 month delay from today)
- Stage 6: Self-reported procrastination
- Stage 7: Demographic details

### Data

For 2022-2023 Academic Year at the University of Southampton:

- Economics dissertation marks
- Time of submission of an online test within a 2 weeks window (proxy for procrastination)
- Submission days/hours from the deadline of the dissertation
- Dissertation supervisors, research topics, programme of study, gender and year-2 average.
- Engagement with the tasks list, with Blackboard page and Panopto recordings.
- For those who participated in the experiment: risk and time preference data, CRT, self reported procrastination.

# **Descriptive Statistics**

Figure 3: Dissertation marks by submission hour



Submission days	Observations	%	Average Marks
<-1 days	21	14.29	66.86
-1 days	27	18.37	65.19
0 days	75	51.02	64.87
>0	24	16.33	63.75
All	147	100	65.03

### Table 1: Average Dissertation Grade by Submission Day

Male	Students	%	Av Mark
Treatment	50	50.00	66.18
Control	50	50.00	63.92
All	100	100	65.05
Female	Students	%	Av Mark
Treatment	23	48.94	65.91
Control	24	51.06	64.08
All	47	100	64.98
Year 2 Average	Students	%	Av Mark
Treatment	73	50.00	65.74
Control	73	50.00	66.03
All	146	100	65.89

### Table 2: Descriptive Statistics I

More Risk Averse	Students	%	Av Mark
Treatment	29	51.79	67.00
Control	27	48.21	64.81
All	56	100	65.95
Less Risk Averse	Students	%	Av Mark
Treatment	18	50	65.78
Control	18	50	64.89
All	36	100	65.33
Not Present Bias	Students	%	Av Mark
Treatment	36	53.73	66.53
Control	31	46.27	65.26
All	67	100	65.94
Present Bias	Students	%	Av Mark
Treatment	11	44	66.55
Control	14	56	63.93
All	25	100	65.08

#### Table 3: Descriptive Statistics II

#### Table 4: Dissertation Marks and Submission Hours by Intention to Treat

Group	Students	%	Av Mark	Av Mark Av Hours		%	Av. Hours
Treatment	73	49.66	<mark>66.10</mark>	<mark>6.75</mark>	10	<mark>13.70</mark>	175.50
Control	74	50.34	63.97	20.76	14	18.92	202.71
All	147	100	65.03	13.80	24	16.33	191.38

### Table 5: Dissertation Marks and Submission Hours by Treatment

Used the task list at least twice										
Group	Students	Av Hours	Late	%	Av. Hours					
Treatment	31	63.27	<mark>66.97</mark>	<mark>-13.35</mark>	2	<mark>6.45</mark>	225.50			
Control	18	36.73	63.61	11.61	3	16.67	200.00			
All 49 100 65				-4.18	5	10.20	210.20			
		Not Used	the task lis	st or used it o	once					
Group	Students	%	Av Mark	Av Hours	Late	%	Av. Hours			
Treatment	Treatment 42 42.86 65.45					19.05	163.00			
Control 56 57.14 64.09		23.70	11	19.64	203.45					
All	98	100	64.67	22.80	19	19.39	186.42			

Table 6: Dissertation Marks and Submission Hours by Treatment and Risk Aversion

Most risk averse students										
Group Students % Av Mark Av Hours Late % A										
Treatment	29	51.79	<mark>67.00</mark>	<mark>-9.14</mark>	3	<mark>10.34</mark>	206.00			
Control	27	48.21	64.81	4.96	4	14.81	208.50			
All	56	7	12.50	207.43						
		Lea	st risk avers	se students						
Group	Students	%	Av Mark	Av Hours	Late	%	Av. Hours			
Treatment	18	2	11.11	85.00						
Control 18 50.00 64.89 51				51.28	6	33.33	185.83			
All	36	100	65.33	24.50	8	22.22	160.63			

Models

$$y_i = \beta_0 + \beta_1 Procrastinators_i + \gamma_{ji} X_{ji} + u_i$$
(1)

$$y_i = \beta_0 + \beta_1 tasks_i + \gamma_{ji} X_{ji} + u_i$$
<sup>(2)</sup>

$$tasks_i = \beta_0 + \beta_1 treatment_i + \gamma_{ji} X_{ji} + u_i$$
(3)

$$y_i = \beta_0 + \beta_1 \text{treatment}_i + \beta_2 \text{riskaverse}_i + \beta_3 \text{treatment}_i * \text{riskaverse}_i + \gamma_{ii} X_{ii}$$
(4)

- y is either the dissertation grade or the hours that a student i submitted their dissertation from the deadline
- Procrastinators is a dummy variable equal to 1 for students who submitted an online test in the second week
  of a 2 weeks window.
- · tasks is the engagement with the task list.
- riskaverse is the measure of risk aversion (0 least risk averse, 1 most risk averse).
- $X_{jit}$  is a scalar of j = 5 control variables: students' gender, year 2 average (as proxy for ability), program of study and the dissertation research topic and supervisor.

# **Empirical Results**

### Empirical Results (at a glance)

- Procrastinators perform worse from non-procrastinators (from 4.6-4.8 points) but this measure cannot predict time of the submission.
- Engagement with the task list is positively correlated with better performance, but is not correlated with time of the submission.
- Nudges are associated with 1.5 weeks higher engagement with the task list.
- Risk averse individuals are submitting earlier their dissertation from less risk averse individuals.
- Risk averse individuals, who are getting nudges are submitting even earlier their dissertation from non risk averse individuals.
- Present bias and self beliefs about procrastination do not predict grades or submission time.

 Table 7: Empirical results of being procrastinator as determined by the date of the submission of the online test on dissertation mark (columns 2-4) and on submission time (columns 5-7)

	Dis	sertation M	ark	Su	Ibmission Ho	urs
Variables	Model 1	Model 2	Model 3	Model 1	Model 2	Model 3
Procrastinators	<mark>-4.77***</mark>	<mark>-4.66***</mark>	<mark>-4.56**</mark>	16.74	24.71	23.28
	(1.69)	(1.72)	(1.74)	(18.54)	(19.62)	(19.87)
Gender		0.30	0.18		25.94	26.88
		(1.74)	(1.75)		(19.79)	(19.96)
Supervisor		Х	Х		Х	Х
Торіс		Х	Х		Х	Х
Program		Х	Х		Х	Х
Year 2 Av			Х			Х
Constant	68 73***	49 73***	48 16***	0.82	512 02**	526 02**
constant	(1 / 9)	(17.67)	(17 77)	(16.33)	(201.03) (	202.02
N	(1.47)	(17.07)	1/6	(10.33)	(201.03) (	1/6
IN	147	147	140	147	147	140
r2	0.05	0.65	0.65	0.01	0.60	0.60
F	7.95	2.34	2.28	0.82	1.92	1.88
ll	-523.22	-450.85	-446.93	-875.10	-808.32	-802.41

Table 8: Correlation between engagement with the task list on dissertation marks (columns 2-4) and on submission time (columns 5-7)

	Dis	sertation M	ark	Su	bmission Hc	urs
Variables	Model 1	Model 2	Model 3	Model 1	Model 2	Model 3
<mark>Engagement</mark>	0.30	<mark>0.61**</mark>	<mark>0.60**</mark>	-2.72	1.12	1.42
	(0.26)	(0.29)	(0.29)	(2.82)	(3.28)	(3.32)
Gender		-0.31	-0.42		26.91	27.52
		(1.77)	(1.78)		(20.00)	(20.15)
Supervisor		Х	Х		Х	Х
Торіс		Х	Х		Х	Х
Duran		V	V		V	
Program		Х	Х		X	Х
Voar 2 Av			×			X
Teal 2 AV			~			Λ
Constant	64.45***	45.94**	44.42**	19.10**	492.22**	505.05**
	(0.88)	(18.14)	(18.23)	(9.48)	(204.88)	(206.34)
Ν	147	147	146	147	147	146
r2	0.01	0.63	0.64	0.01	0.59	0.60
F	1.29	2.22	2.17	0.93	1.86	1.83
ll	-526.49	-453.23	-449.25	-875.04	-809.62	-803.48

Table 9: Empirical results of the impact of engagement with the task list on dissertation marks (columns 2-4) and on submission time (columns 5-7)

	Dis	sertation M	ark	Su	bmission Ho	urs
Variables	Model 1	Model 2	Model 3	Model 1	Model 2	Model 3
Engagement	-0.30	-0.51	-0.97	0.61	-3.95	-1.28
	(0.58)	(0.73)	(0.78)	(6.29)	(8.35)	(9.05)
Treatment	0.82	-1.73	-2.50	-5.19	-3.80	0.83
	(1.81)	(1.89)	(1.93)	(19.46)	(21.71)	(22.44)
Engag.#Treat.	0.65	<mark>1.34*</mark>	<mark>1.83**</mark>	-3.57	5.79	2.86
	(0.66)	(0.79)	(0.84)	(7.13)	(9.06)	(9.75)
Supervisor		Х	Х		Х	Х
Торіс		Х	Х		Х	Х
Program		Х	Х		Х	Х
Year 2 Av			Х			Х
Constant	64.32***	49.92***	49.37***	20.05	508.71**	512.29**
	(1.22)	(18.20)	(18.06)	(13.16) (	208.63)	(210.42)
N	147	147	146	147	147	146
r2	0.03	0.65	0.66	0.01	0.59	0.60
F	1.23	2.22	2.25	0.53	1.78	1.74
ll	-525.27	-450.64	-444.89	-874.69	-809.19	-803.34

Table 10: Empirical Results of the impact of the nudges on the engagement with the task list

Engagement	Model 1	Model 2	Model 3
<mark>Treatment</mark>	<mark>1.58***</mark>	<mark>1.36**</mark>	<mark>1.47**</mark>
	(0.44)	(0.55)	(0.56)
Gender		0.38	0.41
		(0.65)	(0.65)
Supervisor		Х	Х
Торіс		Х	Х
Program		Х	Х
Year 2 Av			Х
<b>C 1 1</b>	a a C-h-h-h		
Constant	1.16***	8.20	8.09
	(0.31)	(6.59)	(6.60)
Ν	147	147	146
r2	0.08	0.50	0.51
F	13.05	1.29	1.27
ll	-350.68	-305.82	-302.34

Table 11: Empirical results of the interaction of being Risk Averse (0 least risk averse, 1 most risk averse) and being nudged (treat) on dissertation marks (columns 2-4) and on submission time (columns 5-7)

	Dis	sertation M	ark	5	ubmission Ho	urs
Variables	Model 1	Model 2	Model 3	Model 1	Model 2	Model 3
Treatment	0.89	1.55	1.58	-53.56*	-47.94	-56.54
	(2.75)	(3.41)	(3.54)	(31.36)	(40.20)	(38.31)
<mark>Risk Averse</mark>	-0.07	-0.33	-0.35	-46.31	<mark>-130.93***</mark>	<mark>-155.21***</mark>
	(2.51)	(3.36)	(3.71)	(28.63)	(39.69)	(40.08)
Risk Av. #Treat.	2.11	0.67	0.80	<mark>-60.42**</mark>	<mark>-84.78**</mark>	<mark>-94.86**</mark>
	(2.47)	(3.23)	(3.48)	(28.23)	(38.13)	(37.57)
Supervisor		Х	Х		Х	Х
Торіс		Х	Х		Х	Х
Program		Х	Х		Х	Х
Year 2 Av			Х			Х
Constant	64.89***	56.86***	56.94***	51.28**	529.50***	546.94***
	(1.94)	(16.02)	(16.44)	(22.18)	(189.14)	(177.71)
N	92	92	91	92	92	91
r2	0.01	0.63	0.63	0.05	0.63	0.69
F	0.40	1.24	1.14	1.67	1.20	1.47
ll	-322.49	-276.82	-274.09	-546.57	-503.91	-490.70

# Conclusion

- We attempt to reduce student procrastination by creating a simplified forward feedback mechanism and weekly nudges.
- We attempt to understand the impact of time and risk preferences on submission times and grades.
- Procrastination hurts students.
- Students self-beliefs on their procrastination are imprecise.
- Sending weekly email reminders works: it increases engagement with task list.
- Concerns about more risk averse students, who are already submitting earlier, being nudged unnecessarily.
- Further research is needed to investigate how to tailor nudges specifically to the subgroup of students who are less risk averse to decrease submission times.

# **Questions?**

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R. H. Thaler and C. R. Sunstein. *Nudge: Improving decisions about health, wealth, and happiness.* Penguin, 2009. Table 12: participation to the Experiment: Average Dissertation Marks and Submission Hours from the deadline

Participation	Students	%	Av Mark	Av Submission Hours
Experiment	92	62.59	65.71	8.16
No Experiment	55	37.41	63.89	23.24
All	147	100	65.03	13.80

Table 13: Students in the treatment and control groups by experiment participation

	Control	Treatment	Total
Experiment	45	47	92
%	48.91	51.09	100
No Experiment	29	26	55
%	52.73	47.27	100
Total	74	73	147
%	50.34	49.66	100

Table 14: Dissertation Marks and Submission Hours by Gender (all sample)

Group	Students	%	Av Mark	Av Hours	Late	%	Av. Hours
Male	100	68.03	65.05	<mark>6.70</mark>	15	15.00	174.40
Female	47	31.97	64.98	<mark>28.91</mark>	9	19.15	219.67
All	147	100.00	65.03	13.80	24	16.33	191.38

Table 15: Dissertation Marks and Submission Hours by Ethnicity (only for the experiment)

Group	Students	%	Av Mark	Av Hours	Late	%	Av. Hours
White	37	42.05	<mark>68.35</mark>	5.70	4	<mark>10.81</mark>	232.50
BAME	51	57.95	<mark>63.96</mark>	6.76	10	<mark>19.61</mark>	154.80
All	88	100.00	65.81	6.32	14	15.91	177.00

Table 16: Direct measure of procrastination (online test with a 2 weeks window) by gender (all sample): submission in week 2 implies procrastination

Gender	Week 1	Week 2	Total
Male	27	73	100
	27%	<mark>73%</mark>	100%
Female	6	41	47
	12.77%	<mark>87.23%</mark>	100%
Total	33	114	147
	22.45%	77.55%	100%

 Table 17: Direct measure of procrastination (online test with a 2 weeks window) by ethnicity (only experiment): submission in week 2 implies procrastination

Ethnicity	Week 1	Week 2	Total
White	16	21	37
	43.24%	<mark>56.76%</mark>	100%
BAME	12	39	51
	23.53%	<mark>76.47%</mark>	100%
Total	28	60	88
	31.82%	68.18%	100%

Table 18: Empirical Results of the Impact of completed tasks from the task list on ECON3036Dissertation Grades (columns 2-4) and on submission time (columns 5-7)

	EC	ON3036 Ma	rk	Submission Hours			
Variables	Model 1	Model 2	Model 3	Model 1	Model 2	Model 3	
Compl. Tasks	0.20**	0.18*	0.17*	-2.11**	-0.02	0.04	
	(0.09)	(0.10)	(0.10)	(1.01)	(1.12)	(1.13)	
Gender		0.18	0.08		27.48	28.34	
		(1.78)	(1.79)		(19.97)	(20.13)	
Supervisor		Х	Х		Х	Х	
Торіс		Х	Х		Х	Х	
Program		Х	Х		Х	Х	
Year 2 Av			Х			Х	
Constant	64.07***	49.50***	47.97**	24.11***	502.69**	517.34**	
	(0.85)	(18.11)	(18.21)	(9.08)	(203.23)	-204.76	
Ν	147	147	146	147	147	146	
r2	0.03	0.63	0.63	0.03	0.59	0.6	
F	4.34	2.17	2.12	4.40	1.85	1.82	
ll	-524.97	-454.33	-450.33	-873.31	-809.73	-803.65	

### 3 different measures of procrastination

- Economic measure (experiment: present bias)
- Direct measure (online test with a 2 weeks window)
- Self-reported measure (questionnaire: 6 different questions).
  - "I often procrastinate on university work."
  - "Deadlines make me feel anxious."
  - "I often leave working on something too late and regret not starting it sooner."
  - "I live for today and do not think about tomorrow."
  - "I sometimes put something in place to stop myself from procrastinating and ensure that I complete my work by a given date."
  - You have just received an assignment that is due in 7 days. Which days are you likely to work on it (assuming you have no other coursework at the same time)?

Group	Students	%	Av Mark	Av Hours	Late	%	Av. Hours
White	37	42.05	68.35	<mark>5.70</mark>	4	10.81	232.50
Asian	38	43.18	<mark>62.58</mark>	<mark>-2.03</mark>	7	18.42	151.00
Black	6	6.82	68.83	77.17	2	<mark>33.33</mark>	244.50
Other	7	7.95	67.29	-5.86	1	14.29	2
All	88	100.00	65.81	6.32	14	15.91	177.00

Table 19: Dissertation Marks and Submission Hours by Ethnicity (only for the experiment)

Asian includes Asian/Asian British, Black includes Black/African/Caribbean/Black British

 Table 20: Direct measure of procrastination (online test with a 2 weeks window) by ethnicity (only experiment): submission in week 2 implies procrastination

Ethnicity	Week 1	Week 2	Total
White	16	21	37
	43.24%	<mark>56.76%</mark>	100%
Asian/Asian British	10	28	38
	26.32%	<mark>73.68%</mark>	100%
Black/African/Carribbean/Black British	2	4	6
	33.33%	<mark>66.67%</mark>	100%
Other	0	7	7
	0%	100%	100%
Total	28	60	88
	31.82%	68.18%	100%