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Perceptions of Academic Dishonesty: Insights from the University of Tehran

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Abstract

In recent times, Iran has seen an increase in various forms of academic dishonesty. The frequency of academic fraud, plagiarism, and cheating has led to efforts to rebuild the global reputation of Iranian academic institutions. We argue that academic dishonesty adversely affects not only the academic sphere but society as a whole, and addressing it requires an understanding of its various contributing factors. To this end, we undertook a study involving students from three different faculties at the University of Tehran. The study included 300 undergraduate students (182 females and 118 males), aged between 17 to 34 years (average age 20.55, standard deviation 2.04), from the Faculty of Psychology and Educational Sciences, Faculty of Management, and Faculty of Social Sciences. While only minor differences were observed among students from these three faculties, significant variations were noted in the perceptions of academic dishonesty among students from different academic years, including their views on professors' and peers' dishonest behaviors, and the justifiability of academic dishonesty.

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Introduction

Academic dishonesty and misconduct has been one of the main issues that academia. Being too tough on it will disperse students (clients?) and overlooking it will likely culminate in debacle. This is why the majority of universities take a middle stance which is more likely inclined towards loosening monitoring and measures. Therefore, whether it is in the form of



plagiarism, ghost authorship, cheating or fabricating data, etc., academic dishonesty or misconduct is prevalent all over the world. The advent of Internet has been a double edge sword (see for example Shahghasemi et al., 2023; Sarfi et al., 2021; Aeini, Zohouri & Mousavand, 2023). On one hand we can now track and find instances of academic dishonesty across languages and cultures, and on the other hand, the very nature of Internet has made it much easier to become a successful but unethical academician. This is not simply about the "copy-paste" capability of electronic resources or even "automatic paraphrasing" which make it almost impossible to track-down and hunt instances of plagiarism, but about a complex set of social, economic, political, and maybe racial factors that now govern the industry of academic writing and publishing. For example, as the prosperous world is now connected to the third world in a "high speed" manner, intellectual works are now easily and openly outsourced to the third world researchers (see for example Kapoor (2012); Havens & Lotz (2017)), and therefore tracking them down has become complicated. The introduction of Al-assisted article writing has only made this problem more complicated (Zohouri, Sabzali, & Golmohammadi, 2023).

One major concern in the academia has always been student academic dishonesty. Students are the future of the science and educating and correctly evaluating them is vital in continuity of scientific flourishment. This is why universities continuously update their terms of academic conduct, particularly in regard to utilizing new communication technologies, though this does not stop here. Now, rules are increasingly extended to other related fields like professors' relationships with students, receiving money in return for educational-research work, or self-plagiarism (see for example Roig (2015); Roig (2014); Pellegrini (2018) and Shahghasemi & Akhavan (2015)).

Iran is known as a culture in which "knowledge" has a special place. For centuries, Iranian and Persian literature has been full of poems, admonitions and advices that the human life is worth nothing without knowledge, and in our time, Iranians are eager to show off by acquiring academic degrees. Today, about 4.5 million Iranians are studying in Iranian universities while another 100 hundred thousands are studying abroad. It's a big figure for a country of 80 million population with economic difficulties and limited international relations. Anyway, this bubble growth has entailed negative consequences including replacement of quality with quantity (see for example Varij Kazemi and Dehghan Dehnavi (2017) for detail). As a result, this seemingly bright profile has been racked in the last decade by several international debacles. First, Declan Butler (2009) from the famous journal Nature, accused several Iranian officials of plagiarism and academic misconduct, and after that, Iranians were frequently cited by bodies like Plagiarism Watch and others as more instances of plagiarism were identified. It was a great defamation for Iranian academia and many professors and students have been expelled by authorities and university deans in reaction; moreover, some Iranian scholars initiated a website named Professors against Plagiarism to monitor academic publishing work by Iranian scholars and whistle blow plagiarized papers when are published in international journals.

Academic dishonesty and misconduct remain significant challenges in the academic world. Adopting an overly strict approach can alienate students (or clients), while neglecting the issue may lead to serious consequences. Consequently, most universities adopt a moderate approach, often erring on the side of relaxed monitoring and enforcement. Academic dishonesty, manifesting as plagiarism, ghost authorship, cheating, or data fabrication, is a global issue. The internet, while useful in detecting academic dishonesty across various languages and cultures, has also simplified the process of engaging in unethical academic practices. The challenges are not just due to the ease of copying and pasting or



automatic paraphrasing that makes detecting plagiarism difficult, but also due to a complex mix of social, economic, political, and perhaps racial factors influencing academic writing and publishing. For instance, the easy accessibility of outsourcing intellectual work to researchers in developing countries complicates the tracking of original sources (refer to Kapoor (2012), Havens & Lotz (2017)).

Student academic dishonesty is a particular concern, as students represent the future of science. Ensuring their proper education and evaluation is crucial for the continued advancement of knowledge. Universities are constantly updating their academic conduct policies, especially in light of new communication technologies. These updates extend beyond mere student conduct, encompassing aspects such as faculty-student relationships, financial exchanges in educational research, and self-plagiarism (refer to Roig (2015), Roig (2014), Pellegrini (2018), Shahghasemi & Akhavan (2015)).

In Iran, where knowledge holds a special cultural significance, the quest for academic degrees is prominent. With around 4.5 million students in Iranian universities and another 100,000 studying abroad, the country's emphasis on education is notable, especially given its economic challenges and limited international relations. However, this rapid expansion has led to a shift from quality to quantity in education (see Varij Kazemi and Dehghan Dehnavi (2017)). Recent years have seen the Iranian academic community suffer from international incidents of plagiarism and misconduct. Notable instances include accusations by Declan Butler (2009) in Nature, and subsequent heightened scrutiny by organizations like *Plagiarism Watch*. These incidents have tarnished the reputation of Iranian academia, leading to the expulsion of students and professors and prompting initiatives like Professors against Plagiarism to monitor and report academic misconduct in international journals.

We believe that the issue of academic dishonesty should be tackled but we don't think expelling cheaters or whistle blowing is enough. We rather think providing an education which is rigorous and help students to become aware of what ethical writing and publication is and how to do it, is a vital and practical step in removing two main causes of academic misconduct in Iran –namely, lack of education about academic misconduct, and lack of fear of punishment. Certainly, when students are aware of what academic dishonesty is, professors will become more cautious not to cross red lines of ethical writing. Doing research on this subject will help us bring more light on this problem and authorities will probably be forced to "do something" about it.

Review of Literature

Several Iranian researchers have recently focused on academic misconduct and dishonesty, publishing their findings in international journals. These works, written in English, are accessible to the readers of this journal. However, in this section, we will only discuss studies published in Persian journals. We identified at least 24 such studies, but for brevity, we will only highlight five that are representative of the broader findings.

Nakhaei & Nikpour (2005) conducted a study to evaluate the prevalence of research cheating among medical students using a comprehensive sampling approach. All 104 final-year medical students at their institution participated, completing a questionnaire that explored seven main types of academic misconduct. This questionnaire was developed based on



methodology literature and focus group discussions with researchers. The students were asked to rate the frequency of each misconduct type and their personal views on a Likert scale. The analysis revealed that 37% of students reportedly fabricated data, while 40% manipulated data to yield desired results. Additionally, it was estimated that 25 to 50 percent of theses contained plagiarized material. Nakhaei and Nikpour warned that if these findings were indicative of a national trend, it would represent a significant issue in the educational system.

Zamani, Azimi, & Soleymani (2013) investigated factors influencing student plagiarism at Espahan University. They conducted a descriptive-survey study with a sample of 300 university students. Their research tool was a self-developed questionnaire, which showed that credentialism and the desire for better grades were the primary predictors of student plagiarism. Other factors included lack of self-efficacy, inadequate detection and punishment mechanisms for plagiarism, sociocultural influences, insufficient academic writing and ethics education, professors' indifference towards plagiarism, and a lack of fear of punishment.

Jamshidi Boroujeni, Saeidi, & Heydari (2014) examined graduate students' awareness of plagiarism and its influencing factors at Shahid Chamran University of Ahvaz. They surveyed 354 students selected through random sampling, using a custom questionnaire. The study found a moderate level of plagiarism awareness among students. The primary causes of plagiarism and academic dishonesty were identified as research incompetence, economic means to hire ghostwriters, credentialism, failure to complete academic assignments, procrastination, and a lack of proper education in academic writing. Abedini, Khezrzadeh, & Zamani (2014) investigated the relationship between students' religious orientation, awareness of the consequences of academic dishonesty and their attitudes toward plagiarism and academic achievement. Their statistical population included students of the Espahan University and Espahan Medical Science University. They used Categorical Randomized sampling method to select 263 students. Their results showed that there was a significant difference between female and male attitudes towards Plagiarism. Based on students' major, there were also differences between the consequences of the Plagiarism and students' attitudes towards Plagiarism. In this study there was a strong relationship between religious orientation and students' attitudes towards plagiarism, and this is why Abedini and her colleagues recommend that empowering religiosity of the students would play an important role in reducing academic dishonesty.

Hemati Alamdarloo, Shojaee, Salimi, & Arjmandi (2017) compared plagiarism and its risk factors among talented and ordinary students at Shiraz University. Their statistical population included all students at Shiraz University and their sample size was consisted of 156 students (78 talented students and 78 ordinary students). The behavior of plagiarism questionnaire and effective factors on plagiarism questionnaire were used to measure plagiarism and its effective factors. Using multivariable analysis of variance, they revealed that talented students were far less likely to commit different kinds of plagiarism and academic dishonesty. The y also found that attitude on plagiarism, self-efficiency, credentialism, lack of education on academic dishonesty, and lack of fear of punishment were among the most effective factors which contribute in plagiarism prevalence among students.

Method



Participants

The study involved 300 undergraduate students (182 females and 118 males) from the University of Tehran, aged between 17 and 34 years (mean age 20.55, standard deviation 2.04). These participants came from three different faculties: the Faculty of Psychology and Educational Sciences, the Faculty of Management, and the Faculty of Social Sciences. The criteria for inclusion in the study were: (a) current enrollment as an undergraduate student; (b) absence of any psychological disorder history; and (c) not being classified as a super senior or a student who has been expelled. Demographic details of the participants are provided in Table 1.

Table 1. Dem	Table 1. Demographic characteristics of sample								
Variable		Gend	Total						
		Male	Female						
Year									
	First	38	84	122					
	Second	27	49	76					
	Third	25	24	49					
	Fourth	28	25	53					
Faculty									
	Psychology	34	56	90					
	Management	51	69	120					
	Social Sciences	33	57	90					
Age category									
	< 20	30	81	111					
	20 to 30	88	100	188					
	> 30	0	1	1					

To ensure precision and representativeness, we employed proportionate stratified sampling, as described by Levy & Lemeshow (2011). This approach not only prevented biases in our sample but also allowed for detailed analysis of different subgroups. Approximately 85% of the approached sample agreed to participate in our study. The remaining either did not meet our inclusion criteria, declined participation, or submitted incomplete questionnaires.



Data collection took place in various campus locations such as classrooms, lobbies, and food courts. Here, students were informed about the study, and those who consented were given the questionnaire. We emphasized that participation was voluntary and their responses would have no impact on their grades or any other aspect of their academic life. Considering the sensitive nature of our research topic, we assured the students of complete anonymity, enabling them to respond to our questions candidly and without reservation.

It is a standard requirement for human-centric research to obtain an Institutional Review Board (IRB) certificate, demonstrating adherence to academic ethical standards. However, such a system is not established in Iran. Despite this, we made every effort to maintain the highest ethical standards in our research, as outlined above.

Measure

Research instrument was a self-report 22-item Questionnaire, which included five demographic questions and 17 items directly asking how much the respondents had experienced or witnessed academic dishonesty (hereafter AD) in their immediate academic environment; the respondents were also asked to what extend they themselves participated in AD of any kind. Respondents scored each item either on a 5-point Likert scale, ranging from 1 = completely disagree to 5 = completely agree, or on a 4-point scale ranging from 1 = never to 4 = always. Initial pool of items was gathered by scanning the literature and reported instruments in similar studies. We refined the order, content and response range of items through an interaction with masters and professors of the field to reach the last version. Some items were meaningful and could reflect an important aspect of our interest (such as: I know social problems that are related to my major). While some others were computed to represent a wider significant concept (such as:self-reported AD or exam cheating).

Results

Our study focused on examining students' and professors' perceptions of academic dishonesty (AD). We sought to gauge students' concern about societal issues and understand how they view their specific academic disciplines as tools for addressing these problems. Additionally, demographic data were utilized to explain variations in perceived AD.

Before conducting our primary analyses, we performed an exploratory analysis to identify outliers and assess the normality of our data distributions. We looked for both univariate and multivariate outliers, using criteria such as leverage, Cook's D, and Mahalanobis distance. These outliers were confined to the limits of what is considered the normal range, as outlined by Meyers, Gamst, and Guarino (2016).

Prevalence of AD

A set of frequency distributions is presented in Table 2. Rows represent answers range for each component of AD. Chisquare tests were used to diagnose any nonrandom difference between expected and observed frequencies.



Table 2. Frequency distribution and ch	i-square test	for eac	h item		
item	answers				
knowing current problems in major	com agree	agree	no idea	disagree	com disagree
Observed N	72	191	27	7	2
χ^2	410.816	df: 4			
sig	.000				
witnessing_classmate_exam_cheating	never	once	sometimes	always	
Observed N	7	10	121	162	
χ^2	247.120	df: 3			
sig	.000				
Prevalence_of_professors' AD	com agree	agree	no idea	disagree	com disagree
Observed N	70	53	148	28	0
χ^2	229.478	df: 4			
sig	.000				
classmate_AD	never	once	sometimes	always	
Observed N	150	32	98	16	
χ^2	155.135	df: 3			
sig	.000				
self_AD	never	once	sometimes	always	
Observed N	245	26	22	6	
χ^2	520.010	df: 3			
sig	.000				
classmate_Plagiarism	never	once	sometimes	always	
Observed N	142	30	97	25	
χ^2	129.102	df: 3			
sig	.000				
self_Plagiarism	never	once	sometimes	always	
Observed N	214	36	45	4	
χ^2	358.298	df: 3			
sig	.000				
cheating_favorability	com agree	agree	no idea	disagree	com disagree
Observed N	34	58	88	62	57
χ^2	24.696	df: 4			
sig	.000				
context_support_for_Cheating	com agree	agree	no idea	disagree	com disagree



Observed N	22	66	118	65	29
χ^2	97.167	df: 4			
sig	.000				
unfair_Scoring	never	once	sometimes	always	
Observed N	57	31	181	23	
χ^2	221.699	df: 3			
sig	.000				
unfair_Article_evaluation	never	once	sometimes	always	
Observed N	79	68	71	95	
χ^2	210.136	df: 3			
sig	.000				
plagiarism_in_Articles	com agree	agree	no idea	disagree	com disagree
Observed N	21	68	71	95	44
χ^2	53.291	df: 4			
sig	.000				
plagiarism_no_referencing	com agree	agree	no idea	disagree	com disagree
Observed N	11	52	65	126	45
χ^2	118.241	df: 4			
Sig					
hope_to_have_contribution	com agree	agree	no idea	disagree	com disagree
Observed N	119	133	36	6	5
χ^2	256.301	df: 4			
Sig	.000				
knowledge_instrumentality	com agree	agree	no idea	disagree	com disagree
Observed N	83	132	47	33	5
χ^2	160.600	df: 4			
Sig	.000				
CV_importance	com agree	agree	no idea	disagree	com disagree
Observed N	91	124	49	27	9
χ^2	147.800	df: 4			
Sig	.000				

Com.: completely

In the first item, we asked the degree to which students are aware of current problems related to their major. Responses



were significantly gathered in 'agree' and 'completely agree' (χ^2 = 410.816, df= 4, p<.001). Many students thought they would have a contribution in their society (χ^2 = 256.301, df= 4, p<.001) and perceived their special knowledge as helpful (χ^2 = 160.600, df= 4, p<.001). For a significant number of students, having a rich CV and publication record was important (χ^2 = 147.800, df= 4, p<.001).

Students reported frequently witnessing exam cheating by their classmates (χ^2 = 247.120, df= 3, p<.001). Many students reported prevalence of academic dishonesty (AD) among professors (χ^2 = 229.478, df= 4, p<.001). In contrast, most of them reported they had 'never,' or only 'once' cheated in exam(s) (χ^2 = 155.135, df= 3, p<.001). Students reported more AD by their classmates (χ^2 = 155.135, df= 3, p<.001) than by themselves (χ^2 = 520.010, df= 3, p<.001). In addition, they perceived their classmates (χ^2 = 129.102, df= 3, p<.001) plagiarizing more than they themselves do (χ^2 = 358.298, df= 3, p<.001).

Some students thought that cheating in exams is acceptable, or they had no idea about it (completely agree= 34, agree= 58, and no idea= 62). Although, most answers were cumulated in disagree and completely disagree points (χ^2 = 24.696, df= 4, p<.001), but that number of agreeing or completely agreeing with cheating acceptability is considerable and could be an index of what exists in the society. In the same way, many students had no idea of contextual support for cheating or AD in their faculties (χ^2 = 97.167, df= 4, p<.001). Surprisingly, many others agreed (66 persons) or completely agreed (22 persons) with perceiving the existence of contextual support for cheating. Most students disagreed or completely disagreed they had copy-pasted from Internet (χ^2 = 53.291, df= 4, p<.001) or used others' writings without citation (χ^2 = 118.241, df= 4, p<.001). Nevertheless, the number of agreeing or even completely agreeing students is not ignorable (copy-pasting from Internet= 89 and copying without citation= 63).

Students thought their professors evaluate their works unfairly (χ^2 = 221.699, df= 3, p<.001). They also complained about unfair article evolution by agreeing with 'my professors do not read the articles in order to score' (χ^2 = 210.136, df= 3, p<.001).

Demographics and AD

In this research we included male and female students from different levels and groups (years and faculties). Here are our results for gender, major and level as factors. We used multivariate analysis of variance (MANOVA) to compare self_AD, classmate_AD, professors'_AD, contextual_AD, and plagiarism across these groups. Table 3 shows means separated by gender.

Table 3. Means separated by gender



variable	Gender	Mean	Std. Deviation	N
self AD	man	5.622	1.691	111
JCII_AD	woman	4.947	1.501	169
classmate AD	man	7.819	2.277	111
classmate_AD	woman	7.136	2.182	169
professors' AD	man	7.451	1.463	111
professors_AD	woman	7.497	1.622	169
contextual AD	man	24.712	3.558	111
contextual_AD	woman	24.557	3.264	169
plagiarism	man	6.459	2.044	111
piagiariam	woman	6.846	1.939	169

Before applying multivariate F-test, we reviewed its statistical presumptions to make sure that our data allowed MANOVA to produce reasonable results. Dependent variables (self_AD, classmate_AD, professors'_AD, contextual_AD, plagiarism) correlated significantly (R: -.154 to.612, P<.01). Box's Test proved equality of covariance matrices (Box's M= 11.934, F_{15} , 222035.970= 1.496, P=.097). Levene's Test showed that error variances of all dependent variables were equal among groups (self_AD: $F_{1, 278}$ = 2.571, p=.110; classmate_AD: $F_{1, 278}$ = 3.151, p=.077; professors'_AD: $F_{1, 278}$ = 1.643, p=.201; contextual_AD: $F_{1, 278}$ =.661, p=.417, plagiarism: $F_{1, 278}$ =.160, p=.690). Table 4 includes both multivariate and between subject tests to examine mean differences between male and female respondents.

Table 4. Multivariate and between subject tests to examine mean differences between male and female								
Multivariate test								
Effect		Value	F	Hypothesis df	Error df	Sig.	Partial Eta Squared	
Gender	Pillai's Trace	.043	2.455	5	274	.034	.043	
dender	Wilks' Lambda	.957	2.455	5	274	.034	.043	
Test of b	etween subject							
Source	Dependent Variable	Type III Sum of Squares	df	Mean Square	F	Sig.	Partial Eta Squared	
	self_AD	30.514	1	30.514	9.357	.002	.033	
Gender	classmate_AD	31.319	1	31.319	7.077	.008	.025	
	professors'_AD	.145	1	.145	.060	.807	.000	
	contextual_AD	1.620	1	1.620	.142	.707	.001	
	plagiarism	10.018	1	10.018	2.551	.111	.009	

Multivariate F was statistically significant ($F_{5, 274}$ = 2.455, p=.034) with an effect size of.043. This showed there was at least one mean difference (of the five dependent variable) between male and female. In order to examine difference



source, we applied between subject test which runs univariate F-test for each dependent variable. As shown in the table, men (5.622) scored higher in self_AD than women (4.947) did (F= 9.357, p=.002, Eta Squared=.033). Men (7.819) outscored women (7.136) in reported classmate_AD (F= 7.077, p=.008, Eta Squared=.025), too. The Effect size was too small for both differences. There were no significant difference between men and women in terms of professors'_AD (F=.060, p=.807), contextual_AD (F=.142, p=.707), and plagiarism (F= 2.551, p=.111).

Table 5. Mean separated by education by years								
variable	Year	Mean	Std. Deviation	N				
	first	4.625	1.606	112				
self AD	second	5.222	1.680	72				
Sell_AD	third	5.532	1.977	47				
	fourth	6.180	1.945	50				
	first	6.384	1.847	112				
classmate AD	second	7.444	1.971	72				
olassinate_AD	third	8.404	1.963	47				
	fourth	8.640	2.028	50				
	first	7.036	1.530	112				
professors' AD	second	7.958	1.551	72				
professors_AD	third	7.596	1.690	47				
	fourth	7.600	1.340	50				
	first	23.268	3.049	112				
contextual AD	second	25.167	3.411	72				
CONTEXTUAL_AD	third	25.702	3.747	47				
	fourth	25.800	2.603	50				
	first	6.661	1.966	112				
plagiarism	second	6.806	1.990	72				
piagiarioni	third	6.745	2.080	47				
	fourth	6.620	2.029	50				

Table 5 represents means of self_AD, classmate_AD, professors'_AD, contextual_AD, and plagiarism for groups with different level of education by year. We wanted to find out if there was a change in students' attitudes on AD across years. Again, MANOVA test was used, but this time with year as variance source. Covariance matrices were not significantly different (Box's M= 52.885, $F_{45,\ 101352.373} = 1.132$, P=.252). Error variances of all dependent variables were equal among groups: self_AD: $F_{3,277} = 2.113$, p=.099; classmate_AD: $F_{3,277} = 1.396$, p=.244; professors'_AD: $F_{3,\ 277} = .870$, p=.457; contextual_AD: $F_{3,\ 277} = 1.869$, p=.135, plagiarism: $F_{3,\ 277} = .061$, p=.980.



Table 6	Table 6. Multivariate and between subject tests to examine mean differences between students with different									
education by year										
Multivar	riate test									
Effect		Value	F	Hypothesis df	Error df	Sig.	Partial Eta Squared			
Year	Pillai's Trace	.249	4.987	15	825.000	.000	.083			
i cai	Wilks' Lambda	.760	5.242	15	754.034	.000	.087			
Test of b	between subject									
Source	Dependent Variable	Type III Sum of Squares	df	Mean Square	F	Sig.	Partial Eta Squared			
	self_AD	90.252	3	30.084	9.783	.000	.096			
Year	classmate_AD	240.045	3	80.015	21.454	.000	.189			
	professors'_AD	39.878	3	13.293	5.664	.001	.058			
	a a material A D	350.925	3	116.975	11.426	000	.110			
	contextual_AD	330.923	3	110.373	11.720	.000	.110			

Multivariate F confirmed difference among groups ($F_{15, 825}$ = 2.455, p=.034) with a small but statistically significant effect size of.083. That is, students in different levels of education by year reported different levels of perceived AD, at least in one component. We subjected the data to a univariate F-test to see where the difference was.

Univariate F-value was significant for self_AD (F= 9.783, p=.000, Eta Squared=.096), classmate_AD (F= 21.454, p=.000, Eta Squared=.189), professors'_AD (F= 5.664, p=.001, Eta Squared=.058), and contextual_AD (F= 11.426, p=.000, Eta Squared=.110). Perception of plagiarism was not different among students with various educational level (F=.115, p=.951, Eta Squared=.001).

Further considerations using multiple comparisons for means showed that first year students (4.625) perceived significantly less self_AD than their third (5.532) and fourth (6.180) year peers did. Second year students (5.222) expressed almost the same level of perceived self_AD as first year students. Perceived classmate_AD was also different among students. Students' level of belief in prevalence of AD grew significantly as they went from year one (6.384) to year two (7.444), from year two to year three (8.404), and from year three to year four (8.640). Interestingly, the changes in all three transformations are statistically significant. Students' reported levels of AD among professors grew significantly from the first (7.036) to the second year (7.958). It returned a bit back to a distance which was not significantly different from the first year (third= 7.596 and fourth= 7.600). In the case of contextual_AD which implies the degree to which students perceived their academic environment justified AD, we also have an interesting finding. Student's belief in existence of a somehow support for misconduct grew significantly up from the first (23.268) to the second year (25.167) and stayed almost flat (with a very slow positive slop) through the third and the fourth years.

Table 7. Multiple comparisons for mean between students with different education by years



Dependent Variable	(I) Voor	(I) Voor	Mean Difference (I-	Std.	Sig.	95% Confiden	ce Interval
Dependent variable	(i) real	(J) Teal	J)	Error	Sig.	Lower Bound	Upper Bound
		second	597	.265	.150	-1.301	.107
	first	third	907	.305	.019	-1.716	097
self AD		fourth	-1.555	.298	.000	-2.348	762
Sell_AD	second	third	310	.329	1.000	-1.183	.564
	Second	fourth	957	.323	.020	-1.816	100
	third	fourth	648	.356	.420	-1.595	.299
		second	-1.060	.292	.002	-1.836	2858
	first	third	-2.020	.336	.000	-2.912	-1.128
classmate_AD		fourth	-2.256	.328	.000	-3.129	-1.383
Classifiate_AD	second	third	959	.362	.051	-1.922	.003
	Scoona	fourth	-1.196	.355	.005	-2.140	251
	third	fourth	236	.392	1.000	-1.278	.807
	first	second	923	.231	.001	-1.537	308
		third	560	.266	.218	-1.267	.148
		fourth	564	.261	.187	-1.257	.128
professors'_AD	second	third	.363	.287	1.000	401	1.126
	Second	fourth	.358	.282	1.000	391	1.108
	third	fourth	004	.311	1.000	831	.823
	fourth	first	.564	.261	.187	128	1.257
		second	-1.899	.483	.001	-3.183	614
	first	third	-2.434	.556	.000	-3.912	957
contextual AD		fourth	-2.532	.544	.000	-3.978	-1.086
CONTEXTURE AD	second	third	535	.600	1.000	-2.130	1.059
	Second	fourth	633	.589	1.000	-2.190	.932
	third	fourth	098	.650	1.000	-1.825	1.629

Further we went on to examine how students from different faculties (Social Sciences, Management, and Psychology) differed in terms of self_AD, classmate_AD, professors'_AD, contextual_AD, and plagiarism. Descriptive table (Table 8) summarizes the condition. We could see some differences, but were they big enough to be mentioned as a systematic variance? Let's review MANOVA test to find out.

Table 8. Mean separated by faculty



Variables	Faculty	Mean	Std. Deviation	N
	Social sciences	5.272	1.782	81
self_AD	Management	5.426	1.987	115
	Psychology	4.847	1.622	85
	Social sciences	7.877	2.221	81
classmate_AD	Management	7.435	2.031	115
	Psychology	6.882	2.089	85
	Social sciences	7.642	1.316	81
professors'_AD	Management	7.661	1.566	115
	Psychology	7.035	1.721	85
	Social sciences	25.469	3.062	81
contextual_AD	Management	24.357	3.109	115
	Psychology	24.141	3.855	85
	Social sciences	6.975	1.968	81
plagiarism	Management	6.252	1.964	115
	Psychology	7.059	1.960	85

Box's test showed no significant difference between covariance matrices (Box's M= 41.763, $F_{30, 288737.406}$ = 1.355, P=.093). Error variances for all dependent variables were equal among groups from three faculties (self_AD: $F_{2, 278}$ = 1.065, p=.346; classmate_AD: $F_{2, 278}$ =.351, p=.704; professors'_AD: $F_{2, 278}$ = 2.153, p=.118; contextual_AD: $F_{2, 278}$ =1.466, p=.233, plagiarism: $F_{2, 278}$ =.050, p=.952).

Table 9. Multivariate and between subject tests to examine mean differences between students from different faculties									
Multivariate test									
Effect		Value	F	Hypothesis df	Error df	Sig.	Partial Eta Squared		
Faculty	Pillai's Trace	.094	2.728	10.000	550.000	.003	.047		
racuity	Wilks' Lambda	.908	2.720	10.000	548.000	.003	.047		
Test of b	etween subject								
Source	Dependent Variable	Type III Sum of Squares	df	Mean Square	F	Sig.	Partial Eta Squared		
	self_AD	16.870	2	8.435	2.535	.081	.018		
Faculty	classmate_AD	41.303	2	20.652	4.661	.010	.032		
	professors'_AD	22.644	2	11.322	4.717	.010	.033		
	contextual_AD	85.858	2	42.929	3.849	.022	.027		
	plagiarism	40.141	2	20.070	5.203	.006	.036		



As multivariate F-test shows, there was a significant difference (F_{10, 550}= 2.728, p=.047) with a small effect size of.047 among groups. Univariate F clarified that classmate_AD (F= 4.661, p=.010, Eta Squared=.032), professors'_AD (F= 4.717, p=.010, Eta Squared=.033), contextual_AD (F= 3.849, p=.022, Eta Squared=.027), and plagiarism (F= 5.203, p=.006, Eta Squared=.036) differed in different faculties, although, self_AD was not different among students from various faculties (F=2.535, p=.081, Eta Squared=.018).

Multiple comparisons for means showed that Psychology students (6.882) perceived significantly less classmate_AD than Social Sciences students did (7.877). Management students perceived fairly the same level of classmate_AD (7.435) as Social Sciences students did. Their mean distance from Psychology students was not significant, too. Psychology students (7.035) scored less than Social Sciences (7.642) and Management students (7.661) in perceived AD among professors. Management and Social Sciences students had almost the same attitude towards AD among professors. Students from Faculty of Social Sciences (25.469) reported more contextual_AD than their peers from Faculty of Management (24.357) and Faculty of Psychology (24.141). Management and Psychology students perceived equal levels of contextual_AD. Students' belief in the existence of plagiarism was different between Management (6.252) and Social Sciences students (6.975), and between Management and Psychology students (7.059). Means were near between psychology and Social Sciences students.

Table 10. Multiple comparisons for means among students from different faculties								
Dependent Variable	(I) Faculty	(J) Faculty	Mean Difference (I-	Std.	Sig.	95% Confidence Interval		
Dopontion variable	(i) i dodity	(o) I dodney	J)	Error	O.g.	Lower Bound	Upper Bound	
	Social Sciences	Management	.442	.305	.447	294	1.177	
classmate_AD		Psychology	.994	.327	.008	.207	1.781	
	Management	Psychology	.552	.301	.203	173	1.278	
	Social Sciences	Management	019	.225	1.000	560	.522	
professors'_AD		Psychology	.607	.241	.037	.027	1.186	
	Management	Psychology	.626	.222	.015	.092	1.159	
	Social Sciences	Management	1.113	.484	.067	054	2.279	
contextual_AD		Psychology	1.328	.518	.033	.079	2.578	
	Management	Psychology	.215	.478	1.000	935	1.366	
	Social Sciences	Management	.723	.285	.035	.037	1.409	
plagiarism	Journal Juliences	Psychology	083	.305	1.000	818	.651	
	Management	Psychology	807	.281	.013	-1.483	130	

Age, Perception of Effectiveness for One's Major, and DA

In this section we will review correlation of age and perception of effectiveness of one's major (operationalized by knowledge of current problems in students' major, students' hope to have a contribution, perceived knowledge instrumentality, and perceived CV importance) to various types of AD. We used Pearson's moment coefficient to examine possible associations. Table 11 represents the zero-order correlation coefficients.



Table 11. Correlation coefficient matrix									
	1	2	3	4	5	6	7	8	9
1.age									
2.knowing_current_problems_in_major	093								
3.hope_to_have_contribution	.072	.041							
4.knowledge_instrumentality	.176**	.119*	.386**						
5.CV_importance	.179**	027	.196**	.372**					
6.self_AD	.259**	035	.203**	.157**	.047				
7.classmate_AD	.366**	089	.137*	.174**	.080	.596**			
8.professors'_AD	.072	073	.063	.093	.039	.169**	.286**		
9.contextual_AD	.234**	087	.032	.109	.068	.217**	.612**	.562**	
10.plagiarism	067	030	112	088	.000	281**	154**	078	.491**

Age was positively related to knowledge_instrumentality (r=.176, p<.01), CV_importance (r=.179, p<.01), self_AD (r=.259, p<.01), classmate_AD (r=.366, p<.01), and contextual_AD (r=.234, p<.01). There was not significant association between age and knowing_current_problems_in_major (r= -.093, p>.05), hope_to_have_contribution (r=.072, p>.05), professors'_AD (r=.072, p>.05), and plagiarism (r= -.067, p>.05).

Knowing_current_problems_in_major was not significantly related to self_AD (r=-.035, P>.05), classmate_AD (r=-.089, p>.05), professors'_AD (r=-.073, p>.05), contextual_AD (r=-.087, p>.05), and plagiarism (r=-.030, p>.05). Hope_to_have_contribution was positively correlated to self_AD (r=.203, p<.01) and classmate_AD (r=.173, p<.05). Professors'_AD (r=.063, p>.05), contextual_AD (r=.031, p>.05), and plagiarism (r=-.112, p>.05) were not significantly associated with hope to have contribution.

Knowledge_instrumentality with the same pattern correlated positively to self_AD (r=.157, p<.01) and classmate_AD (r=.174, p<.05), but not to professors'_AD (r=.093, p>.05), contextual_AD (r=.109, p>.05), and plagiarism (r=-.088, p>.05). CV_importance was not significantly related to self_AD (r=.047, p>.05) and classmate_AD (r=.080, p>.05), professors'_AD (r=.039, p>.05), contextual_AD (r=.068, p>.05), and plagiarism (r=.000, p>.05).

Conclusion

Our findings largely aligned with those of previous research, yet we uncovered several noteworthy results. For instance, when asked about the prevalence of academic dishonesty (AD) among their professors, only 7 out of 300 participants (approximately 2%) chose the option "never." This low level of trust in the university system suggests potential implications for university authorities. A promising area for future research could involve exploring how general societal distrust influences students' trust in academic integrity. Another significant observation from our study was the discrepancy in the reporting of AD. Half of our respondents admitted to having witnessed AD among their classmates, but



only 16% confessed to engaging in AD themselves. This suggests a lack of honesty among participants when reporting their own involvement in AD. Consistent with previous studies (Aiken (1991), Davis, Grover, Becker, & McGregor (1992), Tibbetts (1999), Hensley, Kirkpatrick, & Burgoon (2013), among others), our research indicated that female students are generally less likely to commit AD. However, it's important to consider the views of scholars like McCabe, Trevino, & Butterfield (2010), who suggest that men might be more inclined to self-report AD, and Stiles, Wong, & LaBeff (2018), who caution against drawing broad conclusions about gender differences in AD without more thorough investigation.

Another important finding of our study is that by accumulating experience and shared understating of the academic environment, students more believe in the existence of some kind of "dirty world" in the academia. Every year students become more confident that academia is a place in which cheaters become more successful. Of course some of them might become tempted not stay behind.

Our participants did not view plagiarism with the gravity it deserves, despite its significant impact on the reputation of Iranian academia over the past decade. Plagiarism, which Miguel Roig (2014, p. 27) regards as sometimes "the most serious form of research misconduct," is widespread in Iran. Our survey, along with our practical experience and review of the literature, indicates a profound lack of awareness about plagiarism. This lack of awareness extends beyond students to include many professors in Iran, who are often uninformed about the proper rules for using others' work.

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