

Supplemental Material

CBE—Life Sciences Education

Estrada *et al.*

Supplemental Tables 1. T-test results.

		Levene's Test for Equality of Variances		t-test for Equality of Means						
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
									Lower	Upper
Year Born	Equal variances assumed	.207	.650	.696	99	.488	.86047	1.23664	-1.59329	3.31424
	Equal variances not assumed			.691	92.752	.491	.86047	1.24554	-1.61301	3.33395
Completion Year	Equal variances assumed	0.009	.926	-1.880	99	.063	-.45099	.23987	-0.92694	.02497
	Equal variances not assumed			-1.861	91.184	.066	-.45099	.24234	-0.93234	.03037
Gender	Equal variances assumed	2.339	.129	.386	99	.701	.04111	.10659	-.17039	.25261
	Equal variances not assumed			.394	98.782	.695	.04111	.10446	-.16618	.24839
Marital Status	Equal variances assumed	4.025	.048	1.429	99	.156	.29921	.20937	-.11623	.71464
	Equal variances not assumed			1.406	87.748	.163	.29921	.21281	-.12372	.72214
Total student loans	Equal variances assumed	4.086	.051	-.618	36	.541	-.76923	1.24563	-3.29548	1.75702
	Equal variances not assumed			-.811	35.784	.422	-.76923	.94803	-2.69232	1.15386
Total debts	Equal variances assumed	1.528	.219	-.708	99	.481	-.39447	.55707	-1.49982	.71089
	Equal variances not assumed			-.732	94.986	.466	-.39447	.53859	-1.46370	.67477
Degree of difficulty in paying for basic needs	Equal variances assumed	.007	.932	.112	99	.911	.02134	.19110	-.35784	.40053
	Equal variances not assumed			.112	95.828	.911	.02134	.19112	-.35803	.40072
Instrumental Support	Equal variances assumed	.313	.577	.328	88	.744	.06102	.18614	-.30890	.43094

	Equal variances not assumed			.327	87.063	.744	.06102	.18639	-.30945	.43148
Psychosocial Support	Equal variances assumed	3.054	.084	-.176	88	.861	-.03829	.21766	-.47085	.39427
	Equal variances not assumed			-.175	82.264	.861	-.03829	.21874	-.47342	.39684
Profession Network Support	Equal variances assumed	.124	.726	.714	88	.477	.15860	.22214	-.28286	.60006
	Equal variances not assumed			.714	87.885	.477	.15860	.22210	-.28279	.59998
Family and Friend Support	Equal variances assumed	1.352	.248	.646	99	.520	.11561	.17886	-.23928	.47051
	Equal variances not assumed			.657	98.999	.513	.11561	.17607	-.23374	.46497
Science Identity	Equal variances assumed	.204	.652	.691	90	.492	.11391	.16491	-.21372	.44154
	Equal variances not assumed			.680	79.704	.498	.11391	.16745	-.21934	.44716
Persistence	Equal variances assumed	.056	.814	-.780	90	.437	-.34988	.44860	-1.24110	.54134
	Equal variances not assumed			-.782	89.303	.436	-.34988	.44730	-1.23862	.53886

Supplemental Table 2. Chi-square results.

Attended a Professional Conference Chi-Square Tests

			Attended a Professional Conference		Total
			No	Yes	
If HU ¹	No	Count	28	18	46
		%	60.9%	39.1%	100.0%
	Yes	Count	35	20	55
		%	63.6%	36.4%	100.0%

¹ HU means Historically Underrepresented

	Value	df	Asymptotic Significance (2-sided)	Exact Sig. (2-sided)	Exact Sig. (1-sided)
Pearson Chi-Square	.082 ^a	1	.775		
Continuity Correction ^b	.006	1	.937		
Likelihood Ratio	.082	1	.775		
Fisher's Exact Test				.838	.468
Linear-by-Linear Association	.081	1	.776		
N of Valid Cases	101				

a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 17.31.

b. Computed only for a 2x2 table

Prepared a Scientific Manuscript Chi-Square Tests

			Prepared a Scientific Manuscript		Total
			No	Yes	
If HU ¹	No	Count	20	26	46
		%	43.5%	56.5%	100.0%
	Yes	Count	39	16	55
		%	70.9%	29.1%	100.0%

¹ HU means Historically Underrepresented

	Value	df	Asymptotic Significance (2-sided)	Exact Sig. (2-sided)	Exact Sig. (1-sided)
Pearson Chi-Square	7.759 ^a	1	.005		
Continuity Correction ^b	6.671	1	.010		
Likelihood Ratio	7.830	1	.005		
Fisher's Exact Test				.008	.005
Linear-by-Linear Association	7.682	1	.006		
N of Valid Cases	101				

a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 19.13.

b. Computed only for a 2x2 table

Prepared a Grant Application Chi-Square Tests

			Prepared a Grant Application		Total
			No	Yes	
If HU ¹	No	Count	20	26	46
		%	43.5%	56.5%	100.0%
	Yes	Count	32	23	55
		%	58.2%	41.8%	100.0%

¹ HU means Historically Underrepresented

	Value	df	Asymptotic Significance (2-sided)	Exact Sig. (2-sided)	Exact Sig. (1- sided)
Pearson Chi-Square	2.168 ^a	1	.141		
Continuity Correction ^b	1.619	1	.203		
Likelihood Ratio	2.175	1	.140		
Fisher's Exact Test				.165	.101
Linear-by-Linear Association	2.147	1	.143		
N of Valid Cases	101				

a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 22.32.

b. Computed only for a 2x2 table