

## Level of Experience in Statically-typed Languages

### Case Processing Summary

		Cases			
Level of Experience in Statically-typed Languages		Valid		Missing	
		N	Percent	N	Percent
Grdaes With Type Hints	Beginner	8	100.0%	0	0.0%
	Intermediate	34	100.0%	0	0.0%
	Advanced	46	100.0%	0	0.0%
	Proficent	24	100.0%	0	0.0%

### Case Processing Summary

		Cases	
Level of Experience in Statically-typed Languages		Total	
		N	Percent
Grdaes With Type Hints	Beginner	8	100.0%
	Intermediate	34	100.0%
	Advanced	46	100.0%
	Proficent	24	100.0%

### Descriptives

Level of Experience in Statically-typed Languages			Statistic
Grdaes With Type Hints	Beginner	Mean	4.75
		95% Confidence Interval for Mean	
		Lower Bound	1.38
		Upper Bound	8.12
		5% Trimmed Mean	4.67
		Median	4.00
		Variance	16.214
		Std. Deviation	4.027
		Minimum	0
		Maximum	11
		Range	11
		Interquartile Range	8
		Skewness	.610
		Kurtosis	-.919
	Intermediate	Mean	3.26
		95% Confidence Interval for Mean	
		Lower Bound	2.33
		Upper Bound	4.20
		5% Trimmed Mean	3.08
		Median	2.00
		Variance	7.170
		Std. Deviation	2.678

## Descriptives

Level of Experience in Statically-typed Languages			Std. Error
Grdaes With Type Hints	Beginner	Mean	1.424
		95% Confidence Interval for Mean	Lower Bound
			Upper Bound
		5% Trimmed Mean	
		Median	
		Variance	
		Std. Deviation	
		Minimum	
		Maximum	
		Range	
		Interquartile Range	
		Skewness	.752
		Kurtosis	1.481
	Intermediate	Mean	.459
		95% Confidence Interval for Mean	Lower Bound
			Upper Bound
		5% Trimmed Mean	
		Median	
		Variance	
		Std. Deviation	

## Descriptives

Level of Experience in Statically-typed Languages			Statistic
	Advanced	Minimum	0
		Maximum	11
		Range	11
		Interquartile Range	4
		Skewness	.997
		Kurtosis	.475
		Mean	7.50
		95% Confidence Interval for Mean	Lower Bound
			Upper Bound
		5% Trimmed Mean	7.44
		Median	6.00
		Variance	30.656
		Std. Deviation	5.537
		Minimum	0
		Maximum	16
	Proficient	Range	16
		Interquartile Range	11
		Skewness	.216
		Kurtosis	-1.498
		Mean	7.67
		95% Confidence Interval for Mean	Lower Bound
			Upper Bound
		5% Trimmed Mean	7.50
		Median	6.50
		Variance	27.101
		Std. Deviation	5.206
		Minimum	0
		Maximum	18
		Range	18
		Interquartile Range	9
		Skewness	.611
		Kurtosis	-.578

## Descriptives

Level of Experience in Statically-typed Languages			Std. Error
		Minimum	
		Maximum	
		Range	
		Interquartile Range	
		Skewness	.403
		Kurtosis	.788
	Advanced	Mean	.816
		95% Confidence Interval for Mean	Lower Bound
			Upper Bound
		5% Trimmed Mean	
		Median	
		Variance	
		Std. Deviation	
		Minimum	
		Maximum	
		Range	
		Interquartile Range	
	Proficient	Skewness	.350
		Kurtosis	.688
		Mean	1.063
		95% Confidence Interval for Mean	Lower Bound
			Upper Bound
		5% Trimmed Mean	
		Median	
		Variance	
		Std. Deviation	
		Minimum	
		Maximum	
		Range	
		Interquartile Range	
		Skewness	.472
		Kurtosis	.918

### Extreme Values<sup>a</sup>

Level of Experience in Statically-typed Languages				Case Number	Value
Grdaes With Type Hints	Beginner	Highest	1	8	11
			2	50	10
			3	51	6
			4	100	4 <sup>b</sup>
		Lowest	1	75	0
			2	60	1
			3	52	2
			4	103	4 <sup>c</sup>
	Intermediate	Highest	1	63	11
			2	108	8
			3	37	7
			4	82	7
			5	97	7
		Lowest	1	46	0
			2	14	0
			3	112	1
			4	84	1
			5	72	1 <sup>d</sup>
	Advanced	Highest	1	3	16
			2	4	16
			3	33	16
			4	49	16
			5	5	15 <sup>e</sup>
		Lowest	1	56	0
			2	45	0
			3	107	1
			4	105	1
			5	65	1 <sup>d</sup>
	Proficent	Highest	1	26	18
			2	30	18
			3	31	16
			4	35	13
			5	77	12 <sup>f</sup>
		Lowest	1	29	0
			2	71	2
			3	64	2
			4	94	3
			5	83	3 <sup>g</sup>

- a. The requested number of extreme values exceeds the number of data points. A smaller number of extremes is displayed.
- b. Only a partial list of cases with the value 4 are shown in the table of upper extremes.
- c. Only a partial list of cases with the value 4 are shown in the table of lower extremes.
- d. Only a partial list of cases with the value 1 are shown in the table of lower extremes.
- e. Only a partial list of cases with the value 15 are shown in the table of upper extremes.
- f. Only a partial list of cases with the value 12 are shown in the table of upper extremes.
- g. Only a partial list of cases with the value 3 are shown in the table of lower extremes.

### Tests of Normality

	Level of Experience in Statically-typed Languages	Kolmogorov-Smirnov <sup>a</sup>			Shapiro-... Statistic
		Statistic	df	Sig.	
Grdaes With Type Hints	Beginner	.199	8	.200 <sup>*</sup>	.917
	Intermediate	.211	34	<.001	.879
	Advanced	.144	46	.018	.894
	Proficent	.134	24	.200 <sup>*</sup>	.930

### Tests of Normality

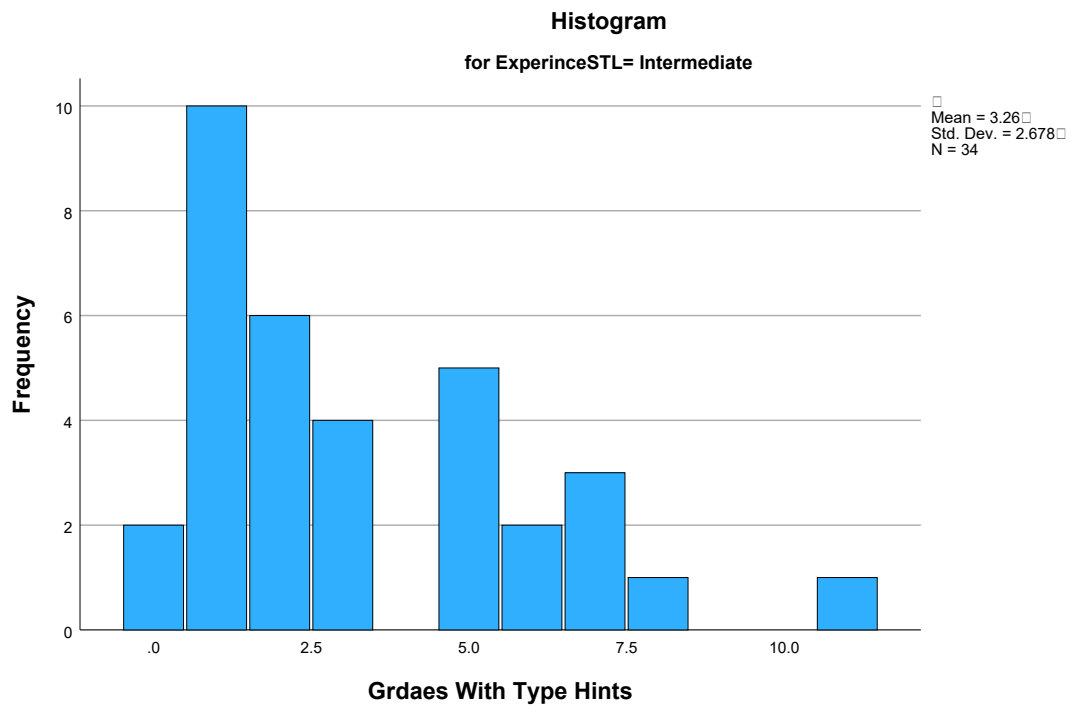
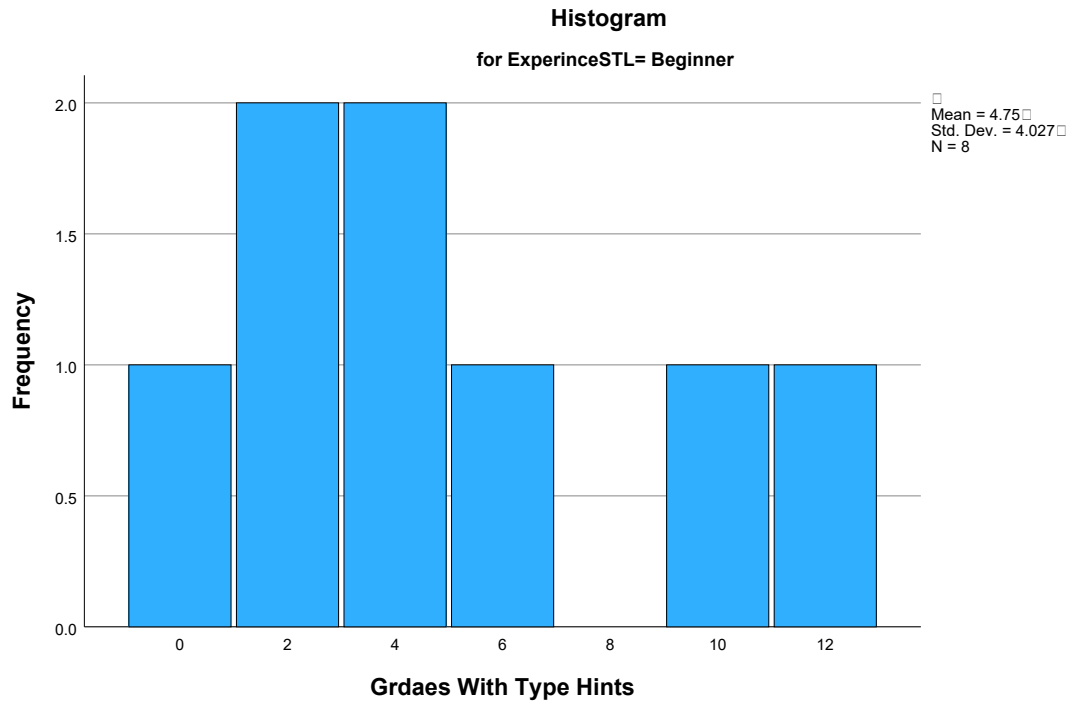
	Level of Experience in Statically-typed Languages	Shapiro-Wilk	
		df	Sig.
Grdaes With Type Hints	Beginner	8	.407
	Intermediate	34	.001
	Advanced	46	<.001
	Proficent	24	.096

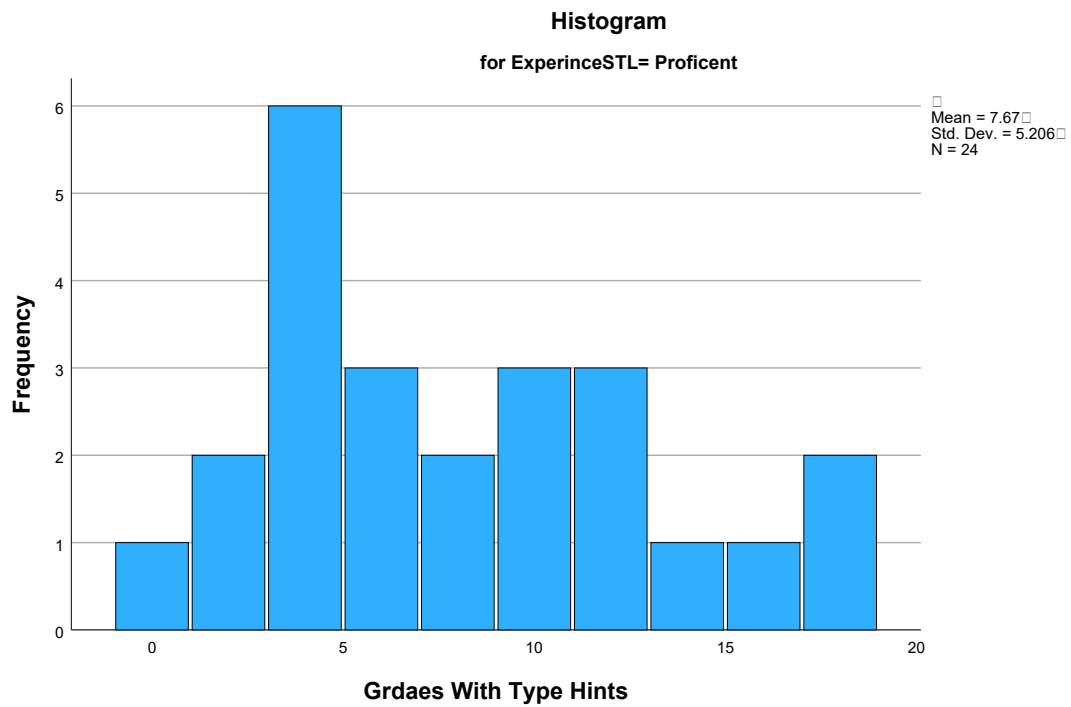
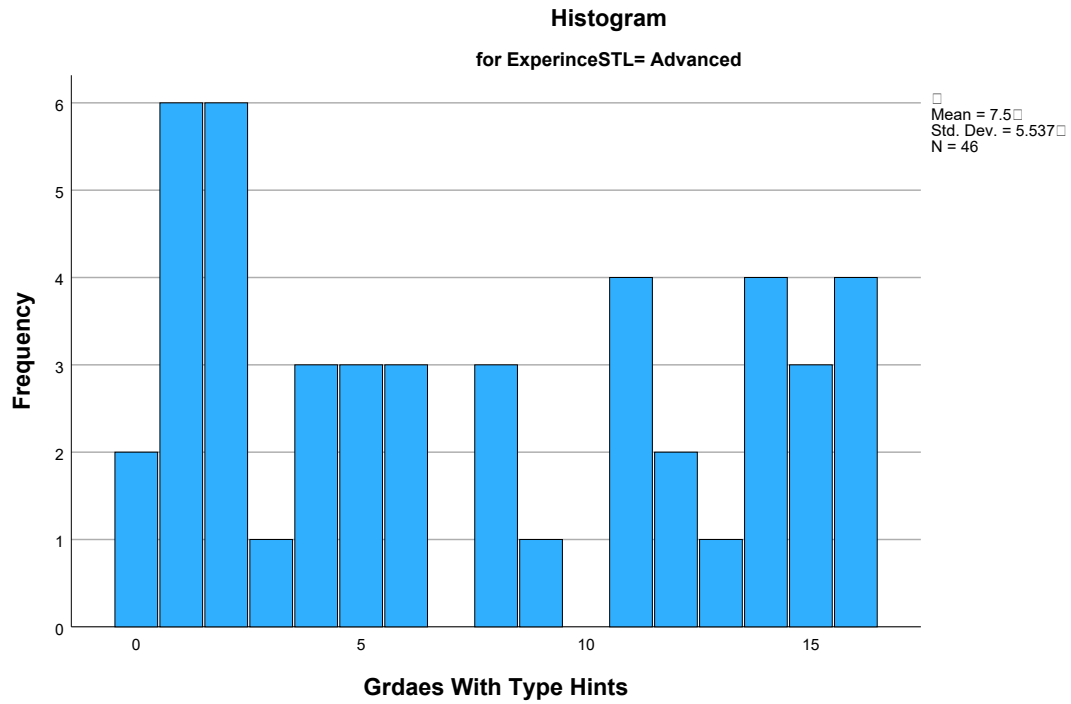
\*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

## Grdaes With Type Hints

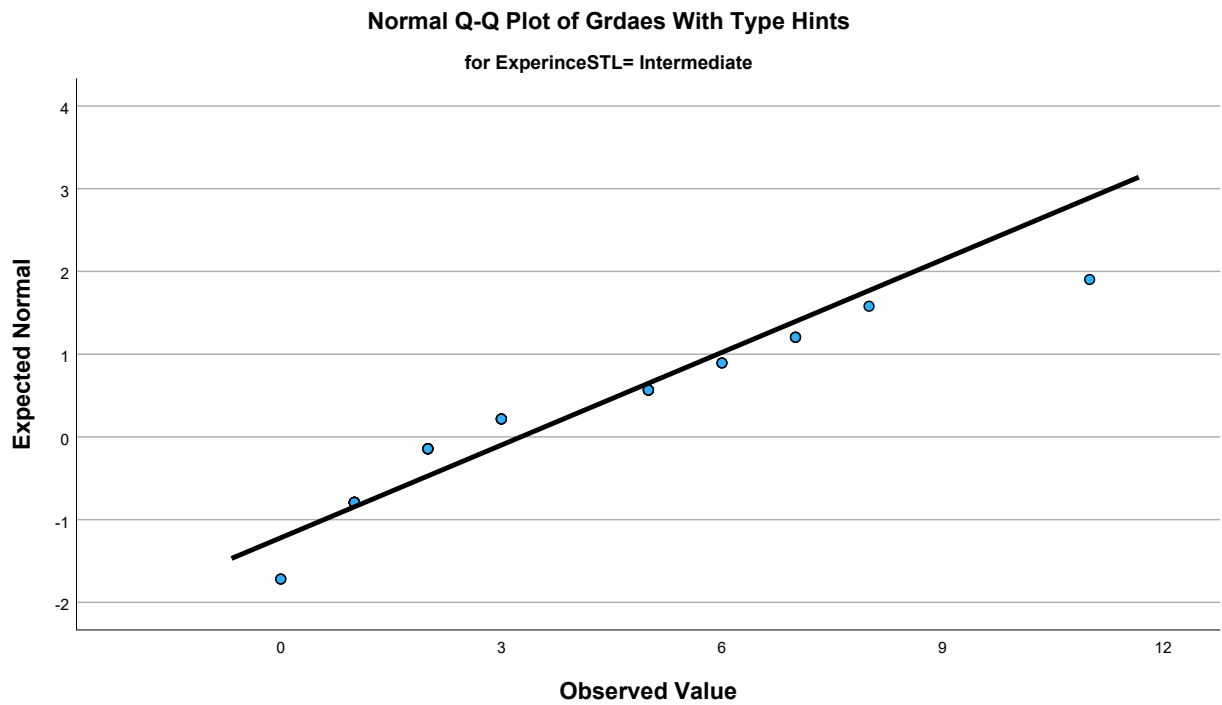
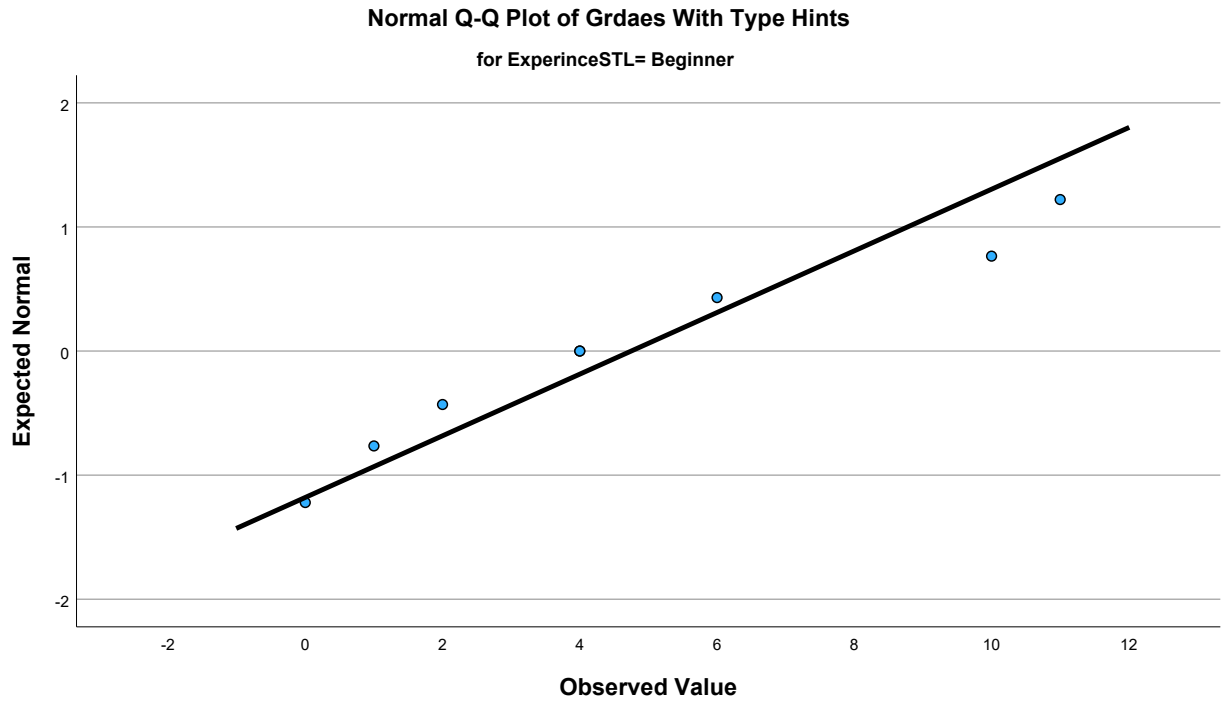
## Histograms

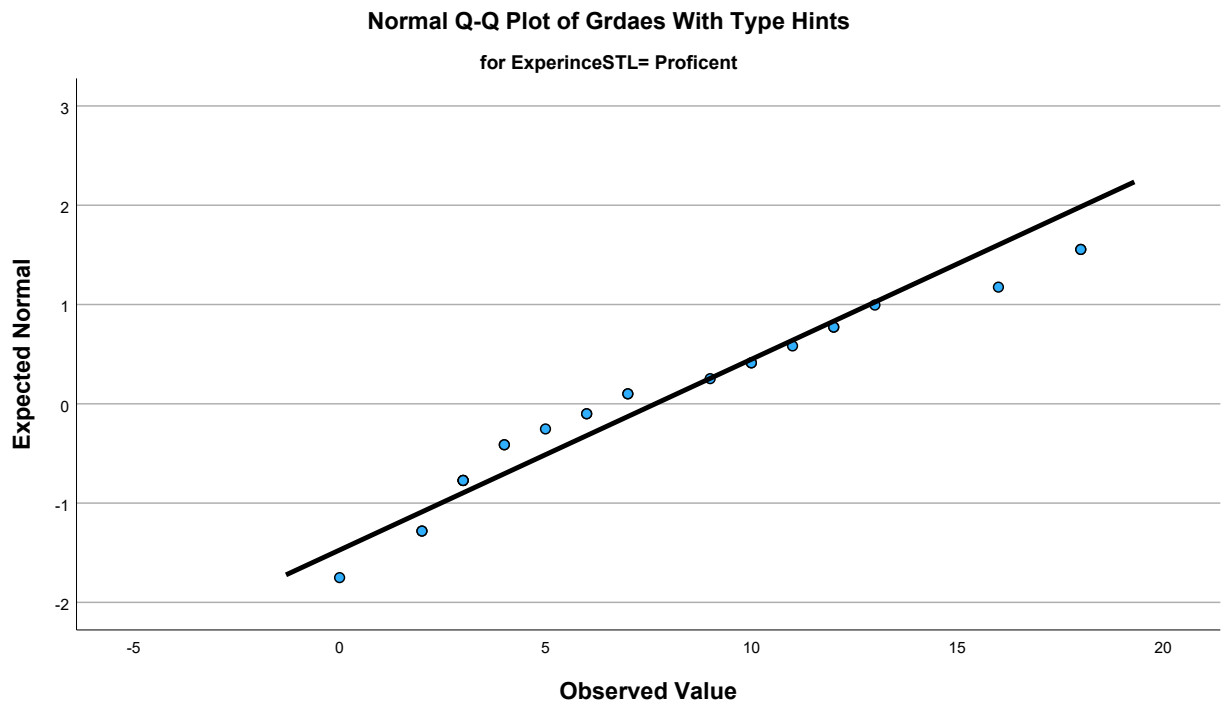
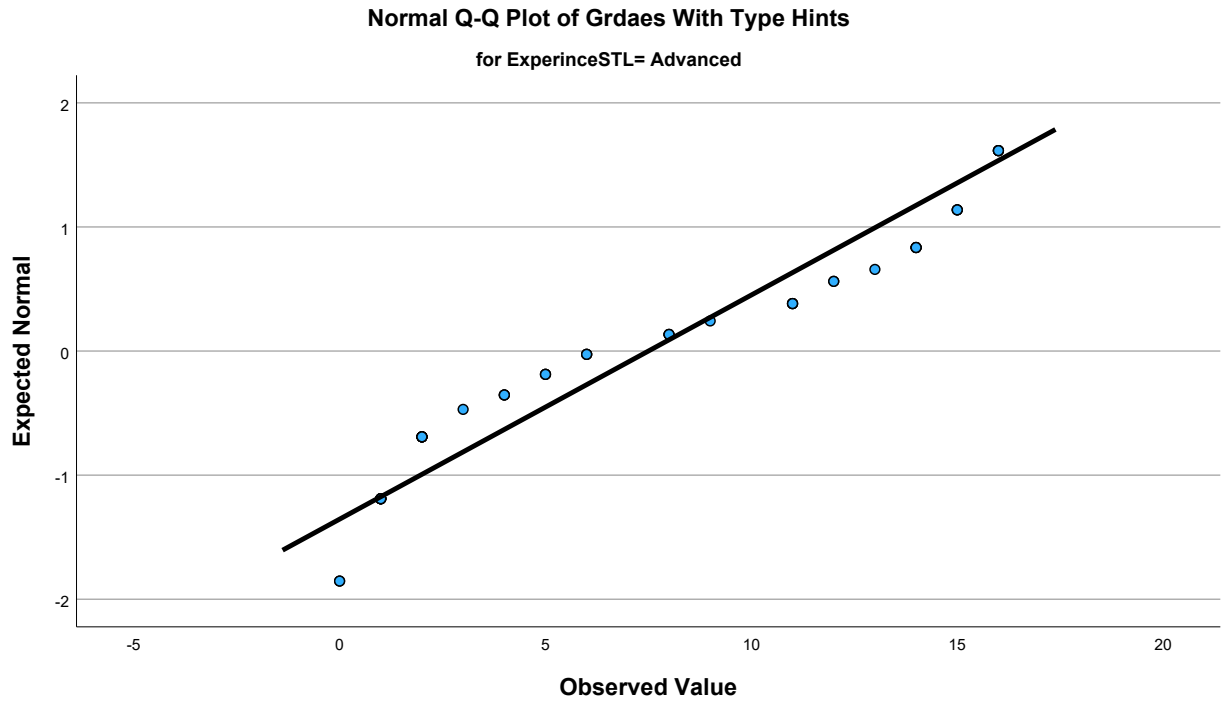




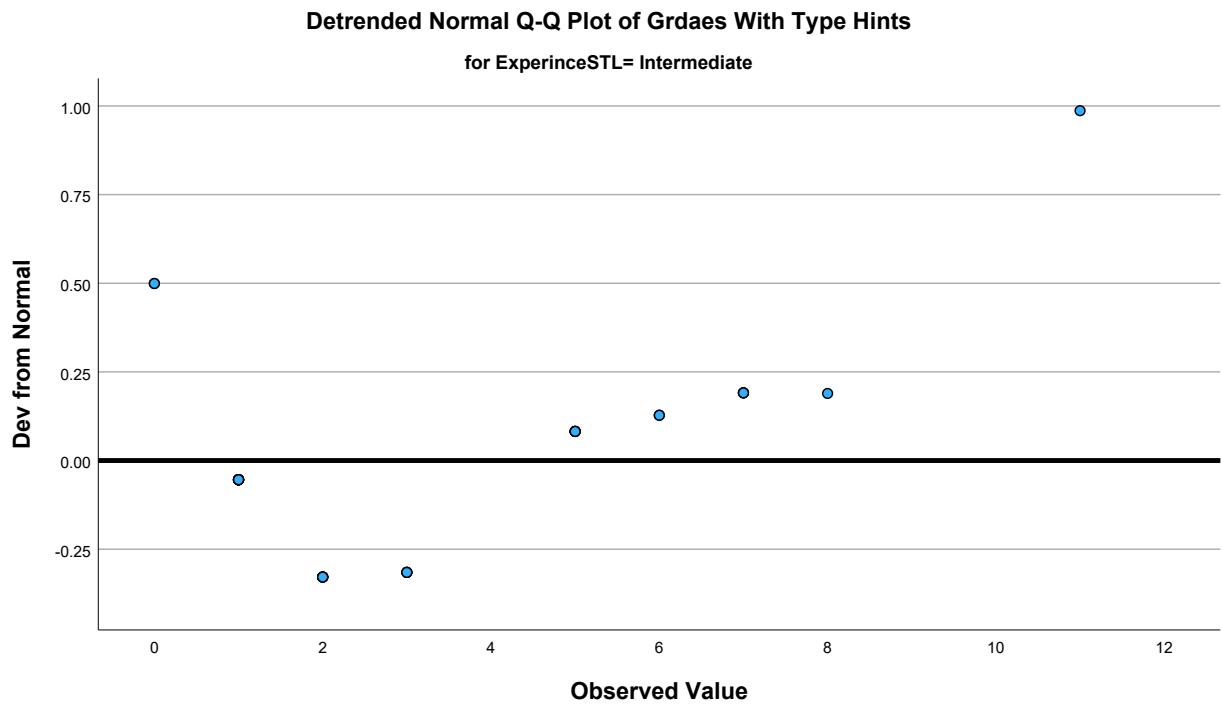
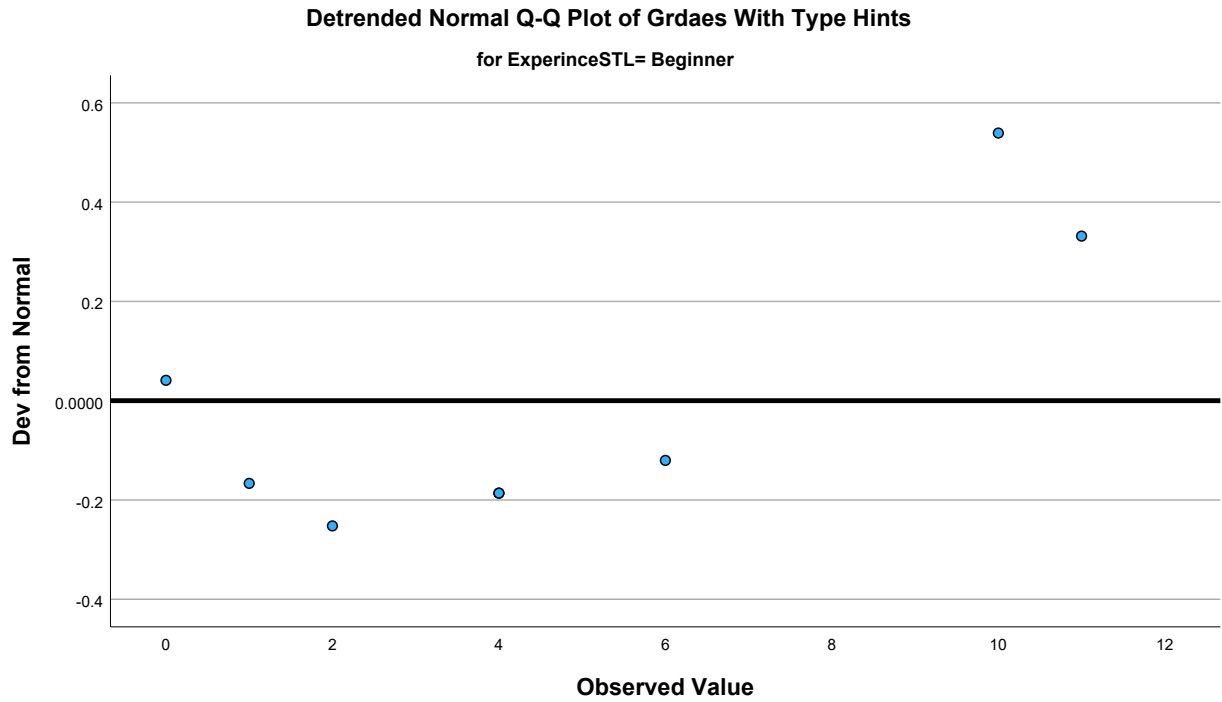
Normal Q-Q Plots

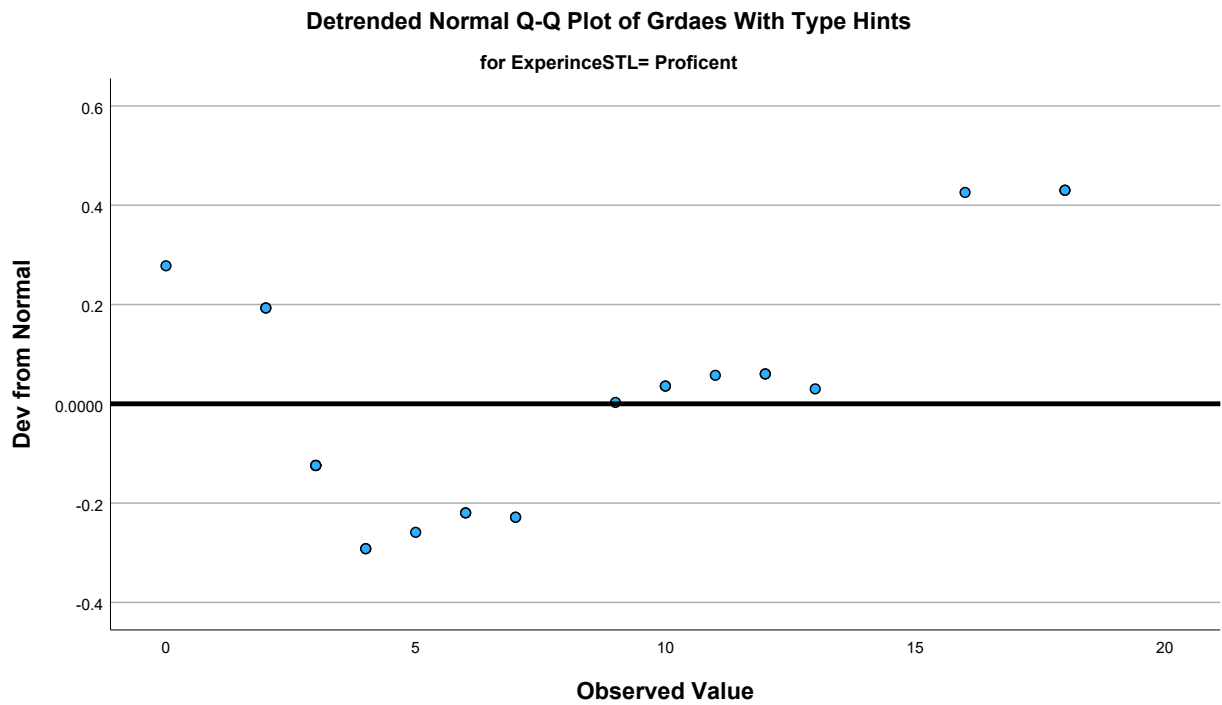
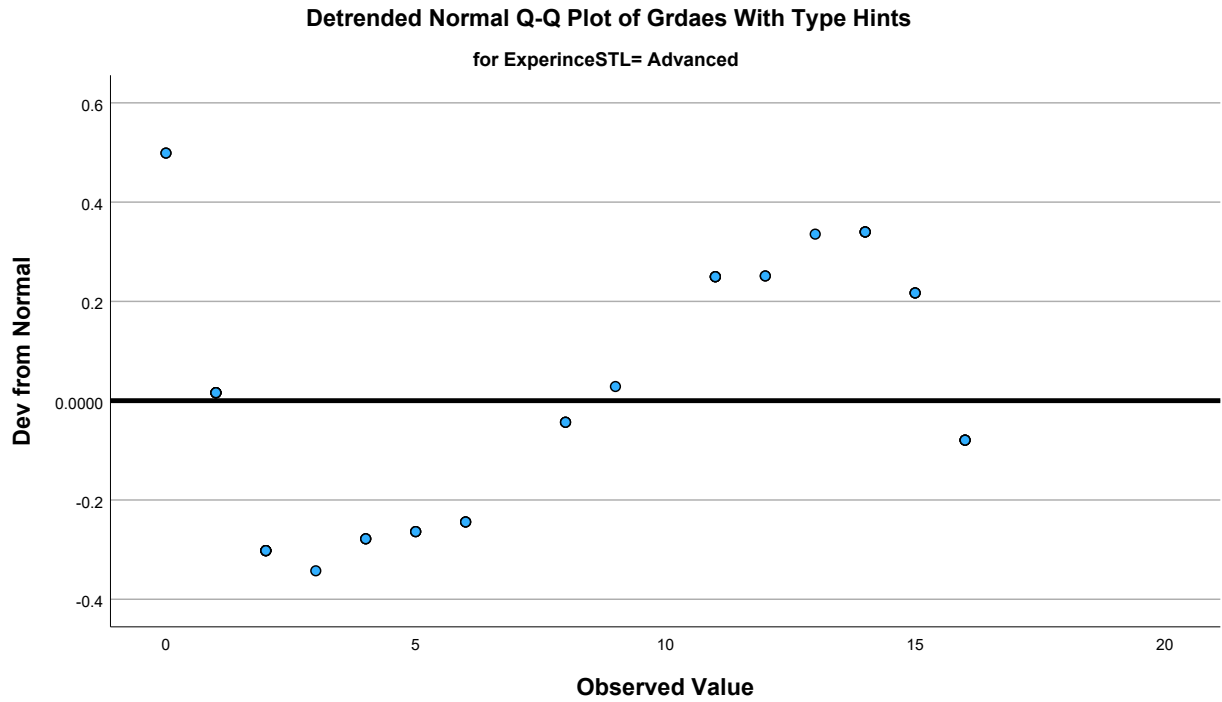






### Detrended Normal Q-Q Plots





**Boxplots**

