An examination of personality traits in students' perceptions of online and hybrid courses *An Exploratory Study*





Dr. Ramiro de la Rosa Dr. Aziza Zemrani



Presenters

• Dr. Ramiro de la Rosa

- Assistant Director COLT
- Adjunct Faculty
- 14 years Online Learning experience
- Area of Research: Personality Traits, Interaction, Perceptions of Online Learning





Presenters

• Dr. Aziza Zemrani

- Interim Chair of Public Affairs and Securities Studies
- Associate Professor
- Area of Research: Budgeting, Forecasting, Comparative Public Administration, Global Cultural Competency, Online Education Research

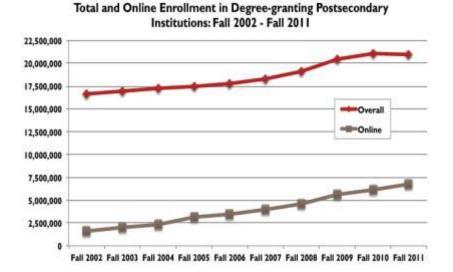






Overall higher education enrollment dropped in 2012 for the first time in years

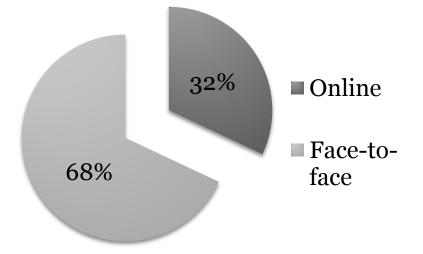
Ten-year trend indicates that online enrollment increased at rates exceeding those of higher education as a whole



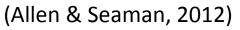


In a 2012 report

- 32% of all post secondary students took at least one online course
- Translates to 6,714,792 students enrolled online in Fall 2011



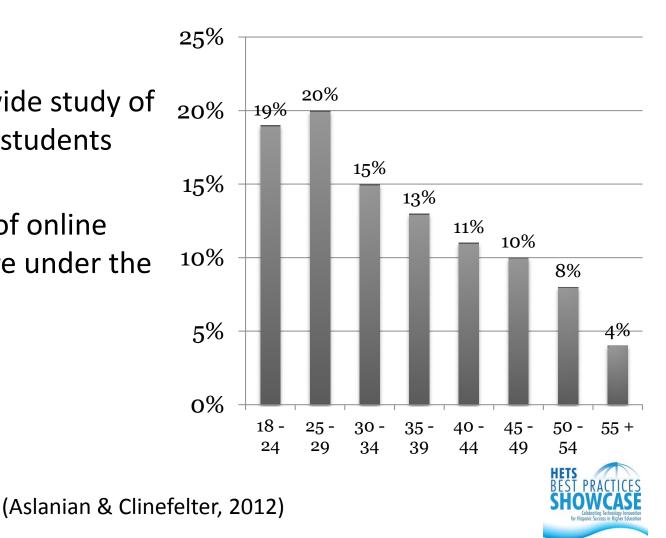
• 9.3% growth from the 2010





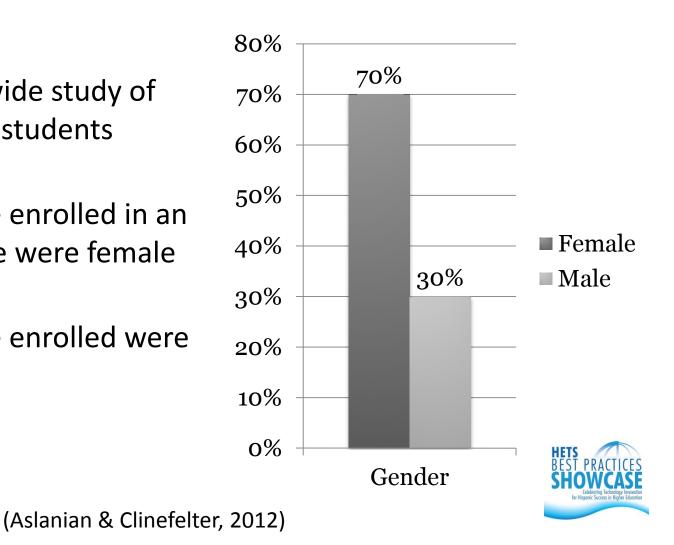
Age

- In a nation-wide study of 1,500 online students
- Almost 40% of online students were under the age of 29



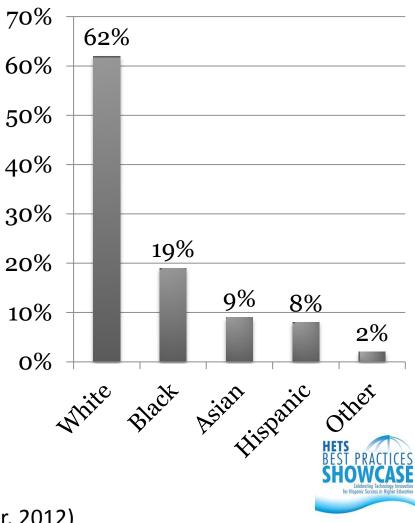
Gender

- In a nation-wide study of 1,500 online students
- 70% of those enrolled in an online course were female
- 30% of those enrolled were male



Ethnicity

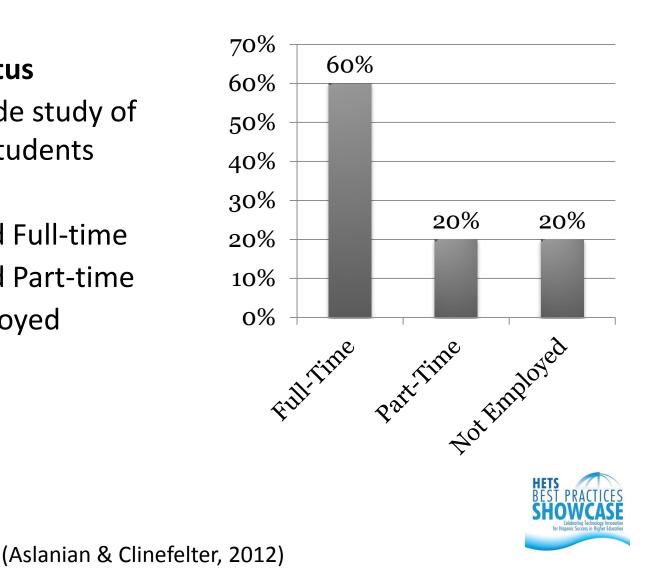
- In a nation-wide study of 1,500 online students
- 62% White
- 19% Black
- 9% Asian
- 8% Hispanic
- 2% Other race



(Aslanian & Clinefelter, 2012)

Employment Status

- In a nation-wide study of 1,500 online students
- 60% Employed Full-time
- 20% Employed Part-time
- 20% Not Employed



Purpose of the Study



Purpose of the Study

- The purpose of the study is to examine the relationship
- between the **Big Five Personality Traits** (Openness to
- Experience, Conscientiousness, Extraversion,
- Agreeableness, Neuroticism) and five specific types of
- **Online Course Impressions** (Engagement, Value to
- Career, Overall Evaluation, Anxiety/Frustration and
- Preference for Online Courses).



Methodology



Sampling

- Participants enrolled in online courses at University of Texas - Pan Am were recruited to participate in the study
- Surveys were provided within participants' online course. Participants login to their course, click on the link provided, read consent form and decided whether to exit or continue on to the survey
- Data were collected electronically
- Participation was strictly voluntary and did not affect the student's grade in any manner

Ethical Considerations

- Anonymity of participation
- Strictly Voluntary
- Grade not dependent on whether the students take or do not take the survey
- Can withdraw at anytime without penalty
- Informed consent
- IRB approval



Instruments



Instruments and Scale

- Two Instruments
 - Big Five Personality Traits used the International Personality Item Pool (IPIP)
 - Online Course Impression (OCI)
- Both used a Likert 5 Point Scale
 - 1 "Very Inaccurate"
 - 2 "Moderately Inaccurate"
 - 3 "Neither"
 - 4 "Moderately Accurate"
 - 5 "Very Accurate"

(Costa & McCrae, 1988; Chamorro-Premuzic & Furnham 2009; McCrae & John, 1992; Keller & Karau, 2013)



- Five continuous variables measuring Personality Traits
 - Openness to Experience
 - Conscientiousness
 - Extraversion
 - Agreeableness
 - Neuroticism



Openness to Experience

Individuals displaying traits of **Openness to Experience** tend to be

- Imaginative
- Intellectually Curious
- Creative
- Aware of Emotions
- Unconventional
- Reflective





Conscientiousness

Individuals displaying traits of **Conscientiousness** tend to be

- Dependable
- Organized
- Self-Discipline
- Prepared
- Detail-oriented
- Efficient
- Responsible

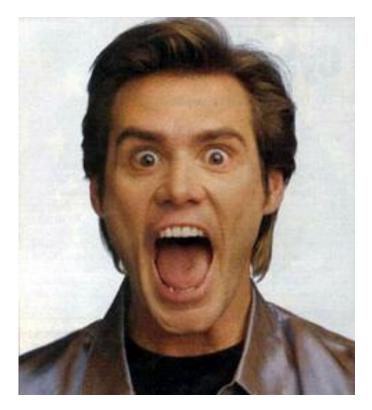




Extraversion

Individuals displaying traits of **Extraversion** tend to be

- Center of Attention
- Conversationalist
- Assertive
- Outgoing
- Positive
- Sociable





Agreeableness

Individuals displaying traits of **Agreeableness** tend to be

- Forgiving
- Generous
- Kind
- Trusting
- Sympathetic
- Compassionate
- Cooperative





Neuroticism

Individuals displaying traits of **Neuroticism** tend to be

- Anxious
- Hostile
- Stressed
- Unstable
- Depressed
- Over-sensitive





- Five Scales:
 - Two assessing positive impressions of online courses
 - Engagement
 - Value to Career
 - Two assessing overall feelings and preference about online courses
 - Overall Evaluation
 - Preference for Online Courses
 - One assessing negative impressions
 - Anxiety/Frustration



Engagement

- Online courses are very motivating to me
- I find online courses engaging
- Online courses motivate me to do my best
- Online discussions motivate me to participate
- I tend to disengage from online courses
- Not having other students present hurts motivation in an online course





• Value to Career

- I think online courses will help me in my career
- Online courses will have little or no value to my career
- I will be able to apply what I learn in my online courses to my job
- Taking courses online will help me get a better job
- Online courses will make me more competitive for raises and promotions
- I sometimes doubt the work relevance of my online courses





- Overall Evaluation
 - My experience with online courses has been positive
 - I would recommend online courses to my family or friends
 - I feel online courses are valuable
 - I enjoy being able to take courses online
 - I hate online courses
 - I've had bad experiences with online courses

D	
D	
E	3
	D



(Keller & Karau, 2013)

- Anxiety/Frustration
 - Online courses make me anxious
 - The anonymity of online courses makes me less anxious than traditional, face-to-face courses
 - Online courses involve too much uncertainty
 - I lose sleep worrying about my online courses
 - Online courses lessen my anxieties about learning





(Keller & Karau, 2013)

- Preference to Online
 Course
 - I learn better online than I do in a traditional classroom
 - I am more comfortable participating in discussions online
 - I prefer online courses over traditional courses
 - Given the choice, I would always choose an online course over a traditional course





(Keller & Karau, 2013)

Research Variables



Independent Variables

- Five continuous variables measuring Personality Traits
 - Openness to Experience
 - Conscientiousness
 - Extraversion
 - Agreeableness
 - Neuroticism



Dependent Variables

- Six continuous variables measuring Online Course Impressions
 - Engagement
 - Value to Career
 - Overall Evaluation
 - Anxiety/Frustration
 - Preference for Online Courses



Demographic and Control Variables

- One dichotomous
 - Gender
- Three dummy coded variables
 - Ethnicity
 - Marital Status
- Five continuous
 - Age
 - Employment Status
 - Number Of Online Courses Enrolled In Current Semester
 - Number Of Online Courses Taken In The Past



Research Questions



Research Question

 Is there a relationship between student's self-rated **Personality Traits** (Openness to Experience, **Conscientiousness**, **Extraversion**, **Agreeableness**, and Neuroticism), his/her impression of Engagement in an online courses when considering students' age, gender, marital status, ethnicity, employment status, number of online courses enrolled this semester, and number of online courses taken in the past



Research Question

 Is there a relationship between student's self-rated **Personality Traits** (Openness to Experience, **Conscientiousness**, **Extraversion**, **Agreeableness**, and **Neuroticism**), his/her impression of Value to **Career** in an online courses when considering students' age, gender, marital status, ethnicity, employment status, number of online courses enrolled this semester, and number of online courses taken in the past



Research Question

 Is there a relationship between student's self-rated **Personality Traits** (Openness to Experience, **Conscientiousness**, **Extraversion**, **Agreeableness**, and **Neuroticism**), his/her impression of **Overall Evaluation** in an online courses when considering students' age, gender, marital status, ethnicity, employment status, number of online courses enrolled this semester, and number of online courses taken in the past



Research Question

 Is there a relationship between student's self-rated **Personality Traits** (Openness to Experience, **Conscientiousness**, **Extraversion**, **Agreeableness**, and Neuroticism), his/her impression of **Anxiety/Frustration** in an online courses when considering students' age, gender, marital status, ethnicity, employment status, number of online courses enrolled this semester, and number of online courses taken in the past



Research Question

 Is there a relationship between student's self-rated **Personality Traits** (Openness to Experience, **Conscientiousness**, **Extraversion**, **Agreeableness**, and **Neuroticism**), his/her impression of **Preference** for Online Courses in an online courses when considering students' age, gender, marital status, ethnicity, employment status, number of online courses enrolled this semester, and number of online courses taken in the past



Descriptive Statistics Of Students



Demographics



Demographics

- Hybrid Courses
 - Participants: 25
 - Ethnicity
 - Hispanic: 20
 - Non-Hispanic: 5
 - Age Mean: 32
 - Gender
 - Male: 14
 - Female: 11
 - Marital Status
 - Married: 11
 - Not Married: 14
 - Work Experience Mean: 11

- Online Course
 - Participants: 17
 - Ethnicity
 - Hispanic: 15
 - Non-Hispanic: 2
 - Age Mean: 34
 - Gender
 - Male: 6
 - Female: 11
 - Marital Status
 - Married: 10
 - Not Married: 7
 - Work Experience Mean: 14



Demographics - Continued

- Hybrid Courses
 - Online Courses Past
 - Mean: 3
 - Online Courses Current
 - Mean: 1

- Online Course
 - Online Courses Past
 - Mean: 8
 - Online Courses Current
 - Mean: 1



Control Variables



Online Courses Enrolled in Current Semester

N = 42

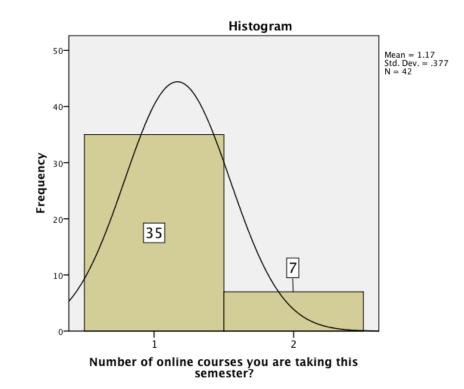
Min = 1

Max = 2

Mean = 1.17

Std. Dev. = .377

Scale: Continuous

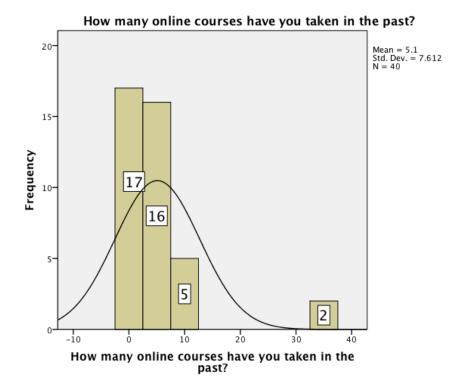




Number of Online Courses taken in the Past

N = 40 Mean = 5.1 Std. Dev. = 7.612

Scale: Continuous





Independent Variables



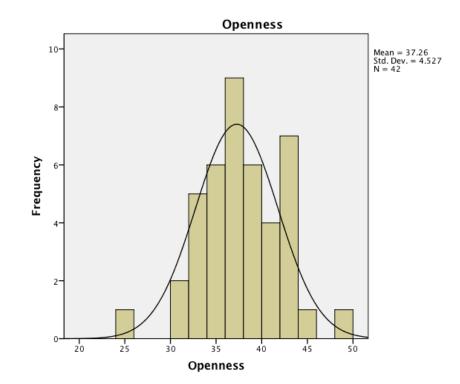
Students' Self-rated Openness to Experience

N = 42 Min = 25

Max = 48

Mean = 37.26

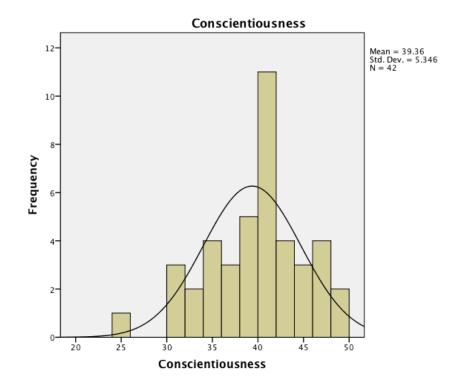
Std. Dev. = 4.527





Students' Self-rated Conscientious

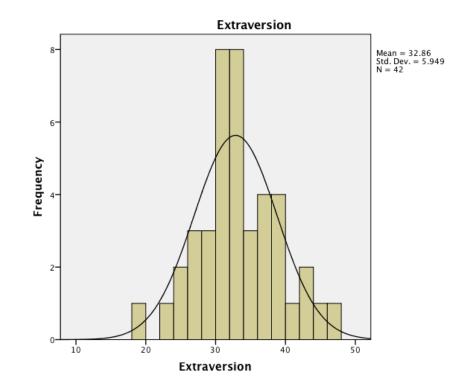
N = 42 Min = 25 Max = 49 Mean = 39.36 Std. Dev. = 5.346





Students' Self-rated Extraversion

N = 42 Min = 19 Max = 47 Mean = 32.86 Std. Dev. = 5.949





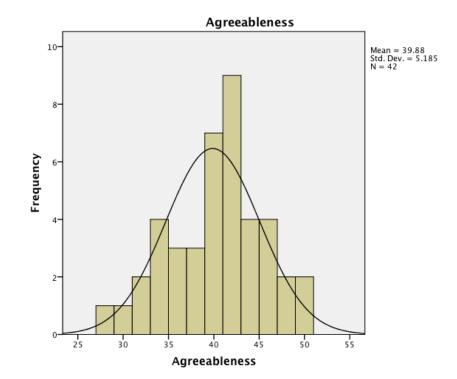
Students' Self-rated Agreeableness

N = 42 Min = 28

Max = 50

Mean = 39.88

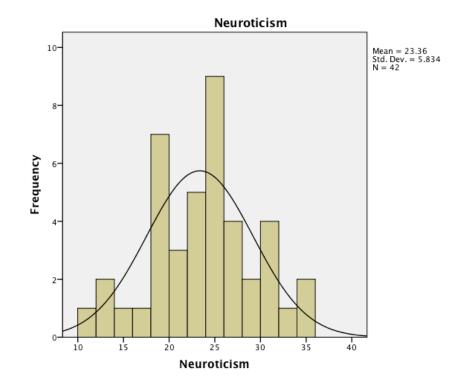
Std. Dev. = 5.185





Students' Self-rated Neuroticism

N = 42 Min = 11 Max = 35 Mean = 23.36 Std. Dev. = 5.836





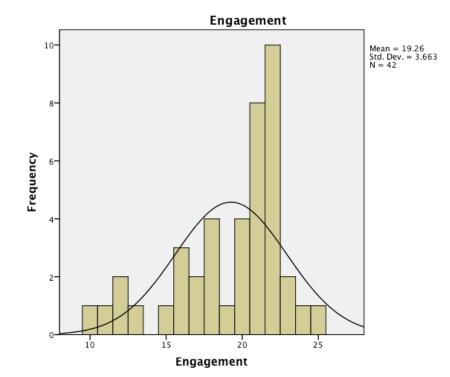
Dependent Variables



Student's Impression of Engagement

N = 42 Mean = 19.26 Std. Dev. = 3.663

Scale = 6 to 30



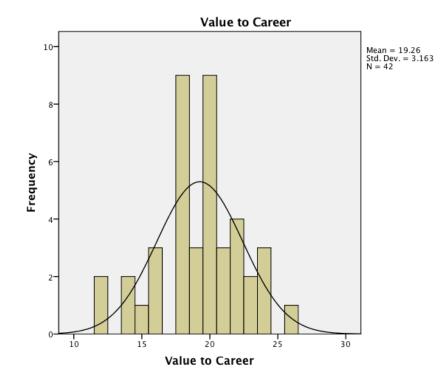


Student's Impression of Value to Career

N = 42

Mean = 19.26 Std. Dev. = 3.163

Scale = 6 to 30

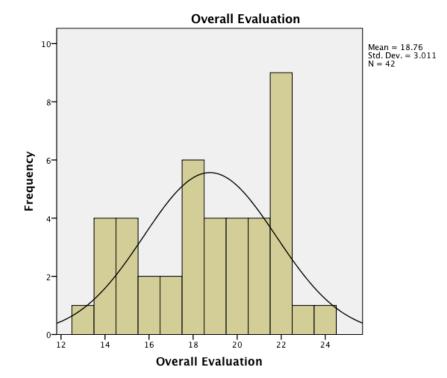




Student's Impression of Overall Evaluation

N = 42 Mean = 18.76 Std. Dev. = 3.011

Scale = 6 to 30

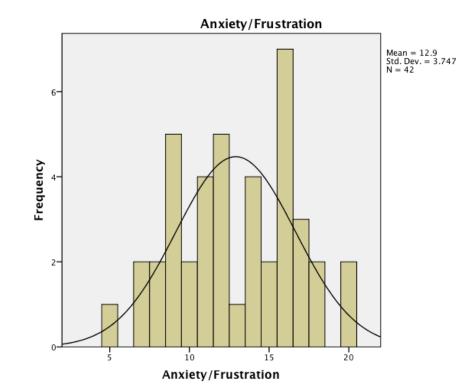




Student's Impression of Anxiety/Frustration

N = 42 Mean = 12.90 Std. Dev. = 3.747

Scale = 5 to 25

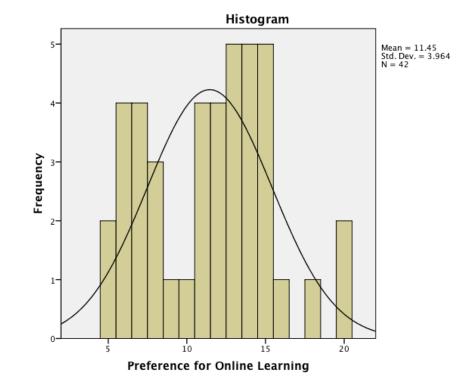




Student's Impression Preference for Online Courses

N = 42 Mean = 11.45 Std. Dev. = 3.964

Scale = 4 to 20





Previous Research



Keller & Karau, 2013

OCI	Ο	С	E	Α	Ν
Engage		.17**	·39 ^{**}		.18**
Value to Career		.25**	.26**	.18**	.21**
Overall Evaluation		.15*	.32**		. 14*
Anxiety/Fr ustration			24**		
Prefer Online			.17**		

p < .05** p < .01



Closing and Future Research



Limitations of the Study

- Sample size Exploratory Study
- Predominantly a large Hispanic student sample
 - Restrictions on generalizability to populations outside a south Texas region



Future Research

- Continue present study to include
 - More students at UTPA (online & hybrid)
 - Add other predominantly Hispanic universities
 - Additional analysis to include correlation/ regression
- Further study and develop the OCI Instrument



Questions?

References

- Allen, I.E. & Seaman, J. (2011). Going the distance: Online education in the United States, 2011. Needham, MA:Sloan Consortium.
- Aslanian, C. B., & Clinefelter, D. L. (2004). *Online college students 2012: Comprehensive data on demands and preferences*. Learning House, Incorporated.
- Chamorro-Premuzic, T., & Furnham, A. (2009). Mainly Openness: The relationship between the Big Five personality traits and learning approaches. *Learning and Individual Differences*, 19(4), 524-529.
- Costa, P. T., Jr., & McCrae, R. R. (1988). From catalog to classification: Murray's needs and the five-factor model. *Journal of Personality and Social Psychology*. *55*, 258-265.
- Keller, H., & Karau, S. J. (2013). The importance of personality in students' perceptions of the online learning experience. *Computers in Human Behavior*, *29*(6), 2494-2500.
- McCrae, R. R., & John, O. P. (1992). An introduction to the five-factor model and its applications. *Journal of personality*, *60*(2), 175-215.

