#### **Binghamton University**

#### The Open Repository @ Binghamton (The ORB)

**Research Days Posters 2021** 

**Division of Research** 

2021

#### Creative Learning During the COVID-19 Pandemic

Jada McCann Binghamton University--SUNY

Jubie Tan Binghamton University--SUNY

Jack Melillo Binghamton University--SUNY

Follow this and additional works at: https://orb.binghamton.edu/research\_days\_posters\_2021

#### **Recommended Citation**

McCann, Jada; Tan, Jubie; and Melillo, Jack, "Creative Learning During the COVID-19 Pandemic" (2021). *Research Days Posters 2021*. 46. https://orb.binghamton.edu/research\_days\_posters\_2021/46

This Book is brought to you for free and open access by the Division of Research at The Open Repository @ Binghamton (The ORB). It has been accepted for inclusion in Research Days Posters 2021 by an authorized administrator of The Open Repository @ Binghamton (The ORB). For more information, please contact ORB@binghamton.edu.

## **Introduction and Background**

**Creativity** is the ability to to produce or develop original work or ideas (APA Dictionary of Psychology, n.d.).

- Since creativity is a highly prized quality in virtually all aspects of life in the United States (Spencer, 2019), from the professional setting and social circles to leisure activities and daily chores, it is important to foster creative learning environments for children and young adults.
- The COVID-19 pandemic and subsequent lockdown transformed many students' lifestyles.
- Most of the current social science literature base targets emotional responses to the pandemic, while the effects on creativity remains a mystery (Mercier et al., 2021).

# **Study Aim and Research Questions**

The purpose of this study is to examine how Binghamton University students **perceive creativity levels** in various types of learning environments during the COVID-19 pandemic.

- 1. How do undergraduate students at Binghamton University gauge creativity in various types of learning environments during the COVID-19 pandemic?
- 2. Does a **significant difference** in perceived creativity exist between students enrolled in all-online courses, only inperson courses, and hybrid courses?

## Methodology

Our participants were 108 students that range from the ages of 17 - 22 at Binghamton University. We administered a Qualtrics survey containing demographic prompts and abridged items from the questionnaire, "KEYS: Assessing the Climate for Creativity."

- a.Our sampling approach was snowball convenience to find initial participants who then distributed it to other people.
- b.Likert Scale (Strongly agree, agree, neither agree nor disagree, disagree, strongly disagree)
- c.KEYS: Assessing the Climate for Creativity
- i.Organizational Encouragement
- ii.Sufficient Resources
- iii.Freedom
- iv.Challenging Work
- v.Peer Support
- vi.Realistic Workload Pressures
- d.Only surveys that were **completely filled out** and had participant consent were included in the results.

Acknowledgements: This research would not be possible without the help of Dr. Amber Simpson and our fellow peers. We would also like to thank all those who supported us throughout this research journey. One more big thank you goes to everyone who took the time out of their day to participate in our research, as well as those of you who are interested in hearing our findings.



# **Creative Learning: During the COVID-19 Pandemic** Jada McCann, Jubie Tan, and Jack Melillo Faculty Advisor: Amber Simpson

### **Research Question 1** Table 1

Means and Standard Deviations for Each Subscale

Subscale

Organizational Encouragement

Sufficient Resources

Freedom

Challenging Work

Peer Support

Realistic Workload Pressures

The mean scores for each subscale suggest that Binghamton University students generally agreed that the campus climate during the COVID-19 pandemic has not stunted their creativity

# **Research Question 2**

Table 2 Means and Standard Deviations for Each Subscale in Relation to Hybrid and All-Online Learning Environments

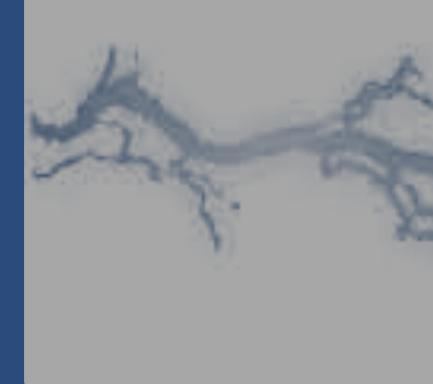
	Hybrid	Learning	All-	Online	Learning		
							P
Subscale		SD			SD	t-test	Value**
Organizational Encouragement	2.84	0.55		2.80	0.64	0.666	0.416
Sufficient Resources	2.02	0.80		2.22	0.83	0.015	0.902
Challenging Work	3.12	0.60		2.92	0.75	1.343	0.249
Peer Support	2.23	0.69		2.34	0.51	0.356	0.552
Realistic Workload Pressures	2.28	0.89		2.41	0.86	0.367	0.546

\*\*Equal variance is assumed for all subscales.

## We fail to reject the null hypothesis.

Since the p-value is less than 0.05, there is no significant difference in perceived creativity between students enrolled in all-online courses and hybrid courses. We excluded the data for only in-person courses due to the low number (3 individuals) of participants who chose this response.  $t(107) = \dots, p > 0.05)$ 

M	SD	Cronbach's α
2.80	0.61	.851
2.09	0.80	.860
n/a	n/a	.374
3.02	0.67	.604
2.25	0.63	.899
2.23	0.88	.859
	-0.00	



- with each other
- work.
- Binghamton University.

- aspects of a student's life.

APA Dictionary of Psychology. (n.d.). Creativity. Retrieved April 15, 2021, from https://dictionary.apa.org/creativity. Mercier, M., Vinchon, F., Pichot, N., Bonetto, E., Bonnardel, N., Girandola, F., & Lubart, T. (2021). COVID-19: A boon or a bane for creativity? Frontiers in Psychology, 11. doi:10.3389/fpsyg.2020.601150 Spencer, K. (2020, September 03). What is creativity and why do you need it? Retrieved April 15, 2021, from https://www.cornerstone.edu.

#### Discussion

• Students at Binghamton University, regardless of their learning environment, agree that the COVID - 19 pandemic **has not stunted** the way they perceive creativity.

• The data has **low variation** (SD < 1), which indicates that students at Binghamton University generally agree

• In lieu of the pandemic, students believe that there is an organizational culture that encourages creativity through the fair constructive judgment of ideas, access to

appropriate resources, including materials, facilities, and information, absence of extreme time pressures, unrealistic expectations for productivity and distractions from creative

• However, our results also suggest that on average, students neither agree nor disagree over the sense of having to work hard on challenging tasks and important projects at

### Implications

• Since no significant difference in perceived creativity levels was found between the hybrid learning environment and the all-online learning environment, schools may want to

consider continuing online and hybrid programs established during the COVID-19 pandemic.

• Educators should bear in mind the influence of **individual** differences in perceiving levels of creativity and features of the learning environment.

• While the campus climate during COVID-19 has not stunted creativity, Binghamton University may want to consider the impacts campus life has had on other

#### References

# BINGHAMTON UNIVERSITY

STATE UNIVERSITY OF NEW YORK