

Materials List for

# Bridging the Technology Divide in the COVID-19 Era: Using Virtual Outreach to Expose Middle and High School Students to Imaging Technology

Kevin D. Phelan<sup>1</sup>, Mohsin Syed<sup>1</sup>, Noor Akhter<sup>1</sup>, Tiffany W. Huitt<sup>1</sup>, Gregory R. Snead<sup>2</sup>, Billy R. Thomas<sup>3</sup>, Karen L. Yanowitz<sup>4</sup>

<sup>1</sup>Division of Clinical Anatomy, Department of Neurobiology and Developmental Sciences, College of Medicine, University of Arkansas for Medical Sciences

<sup>2</sup>Department of Emergency Medicine, College of Medicine, University of Arkansas for Medical Sciences <sup>3</sup>Department of Pediatrics, College of Medicine,

University of Arkansas for Medical Sciences <sup>4</sup>Department of Psychology and Counseling, Arkansas State University

## Corresponding Author

Kevin D. Phelan

phelankevind@uams.edu

## Citation

Phelan, K.D., Syed, M., Akhter, N., Huitt, T.W., Snead, G.R., Thomas, B.R.,

Yanowitz, K.L. Bridging the Technology Divide in the COVID-19 Era: Using Virtual Outreach to Expose Middle and High School Students to Imaging Technology. *J. Vis. Exp.* (187), e64051, doi:10.3791/64051 (2022).

## Date Published

September 28, 2022

## DOI

10.3791/64051

## URL

jove.com/video/64051

## Materials

Name	Company	Catalog Number	Comments
4-port HDMI switcher	logear	I0GHDSW4K4	<a href="https://www.bhphotovideo.com">https://www.bhphotovideo.com</a>
4K video camera	Canon VIXIA HDG50	CAHFG50	High quality 4K resolution video camera
Accessory microphone	Samson Meteor Mic		
ATEM Mini Pro video switcher	Black Magic	BLSWATEMMP	<a href="https://www.blackmagicdesign.com">https://www.blackmagicdesign.com</a>
Ball head camera mount	Glide Gear	GG-33	<a href="https://www.bhphotovideo.com">https://www.bhphotovideo.com</a>
Brain Viz software	Emotiv		<a href="https://www.emotiv.com">https://www.emotiv.com</a>
Dell laptop computer	Dell	13" Dell XPS laptop	
Emotiv Pro software	Emotiv		<a href="https://www.emotiv.com">https://www.emotiv.com</a>
Excel (for MAC)	Microsoft	v. 16.16.27	Data analysis
High Speed HDMI cable with ethernet-15 foot	Pearstone	PEHDA-15	<a href="https://www.bhphotovideo.com">https://www.bhphotovideo.com</a>
MacBook Air	Apple	13", 1.8 GHz Intel Core i5, 8 GB 1600 MHz DDR3	<a href="https://www.apple.com/macbook-air/">https://www.apple.com/macbook-air/</a>
Mini UpDownCross converter	BlackMagicDesign	BLMCUDCHD	<a href="https://www.blackmagicdesign.com">https://www.blackmagicdesign.com</a>
mini HDMI to HDMI converter	Liberty AV Solutions	AR-MCHM-HDF	<a href="https://www.bhphotovideo.com">https://www.bhphotovideo.com</a>
Overhead camera/light studio rig	Proaim	P-OHLR-01	<a href="https://www.bhphotovideo.com">https://www.bhphotovideo.com</a>
PC laptop	Dell		<a href="https://www.dell.com">https://www.dell.com</a>
ProTeam massage table	Hausmann	7650	
R Studio	R Studio PBC	2021.09.0	Data analysis
Remote slide advancer	Logitech	Spotlight presentation remote	
SECTRA table	Touch of Life Technologies		<a href="https://www.toltech.net">https://www.toltech.net</a> ; Cases [S003, 2099, U010)
sheep, pig, and cow hearts	Carolina Biological	Perfect Solution Preserved	<a href="https://www.carolina.com">https://www.carolina.com</a>
TVN Viewer Software	GlavSoft LLC		Part of TightVNC

Ultrasound laptop device	GE	NextGen LOGIQe laptop/cart	<a href="https://logiq.gehealthcare.com">https://logiq.gehealthcare.com</a>
Universal adjustable tripod	Magnus	MAVT300	
USB3.0 to Gigabit Ethernet adapter	Insignia		
wireless controller	Canon	WL-D89	
Wireless EEG headset	Emotiv	EPOC X	<a href="https://www.emotiv.com">https://www.emotiv.com</a>
ECG package	GE	3 lead USB-ECG unit	
ZOOM software	Zoom	version 5.10.1	<a href="https://zoom.us">Zoom.us</a>