

# Expanding Physical Therapy Education in Idaho with the Help of Technology

Erik Talbert; Ed. D student, Educational Technology Deanna Dye, PT, PhD; Associate Professor





## **Idaho State University**





## **Background - Profession**

What is physical therapy?









### **Background - Profession**

What is physical therapy?



https://healthcarecareersguide.com/ physical-therapy-history/

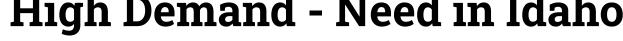


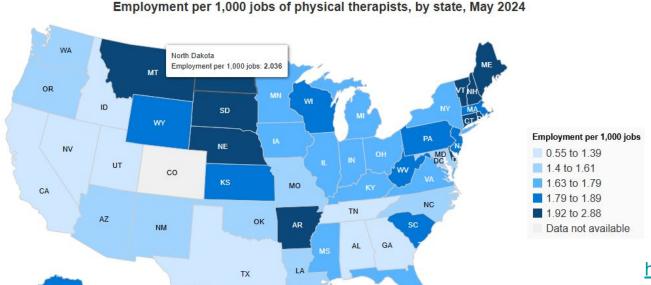






## **High Demand - Need in Idaho**





- PT only offered at ISU
- PT has been in the top 10 high demand jobs for over a decade

https://data.bls.gov/oesmap/





#### WAGES – 2023 APTA REPORT

APTA; A Physical Therapy Profile: Wages Earned in the Profession, 2021-22: A Report From the American Physical Therapy Association; July 2023

Median Gross Earned Wages of Full-Time PTs by Years of Experience

	2004	2005	2006	2008	2010	2013	2016	2021*
0-3	\$51,000	\$54,000	\$56,000	\$60,000	\$60,660	\$64,000	\$67,000	\$72,000
4-6	\$58,000	\$62,000	\$65,000	\$70,000	\$70,000	\$73,000	\$74,000	\$80,000
7-9	\$64,000	\$69,000	\$70,000	\$75,000	\$77,000	\$78,000	\$80,000	\$85,000
10-15	\$70,000	\$75,000	\$75,000	\$80,000	\$82,500	\$90,000	\$89,000	\$93,000
16+	\$75,000	\$80,000	\$80,000	\$86,000	\$90,000	\$92,000	\$96,250	\$104,000

<sup>\*</sup>n values for 2021: 0-3, n = 298; 4-6, n = 487; 7-9, n = 355;10-15, n = 452;16+, n = 1,424.

Percentile	10%	25%	50% (Median)	75%	90%
Hourly Wage	\$ 32.65	\$ 38.80	\$ 46.98	\$ 51.65	\$ 61.94
Annual Wage (2)	\$ 67,910	\$ 80,700	\$ 97,720	\$ 107,430	\$ 128,830



https://www.bls.gov/oes/current/oes291123.htm#ind



## **High Demand - Need in Idaho**

- Worked with State of Idaho oversight and budget control
- ISU Administration
  - Pocatello and Meridian coordination
  - Instructional Technology and Infrastructure
- Guessed on technology needs had to purchase 1 year prior to installation
  - Including remodeling of the Pocatello campus
- Hiring and Training of Faculty





With primary population center in the Boise area

Solution – Technology

BUT..... COST





### **Tech Talk**



ROAR





















ROAR





ROAR





*ROAK* 







**Touch Panel** 



Microphones



Projector



**Speakers** 



**Monitors** 



Wireless Access Point



**Charging Station** 



**Remote Controls** 





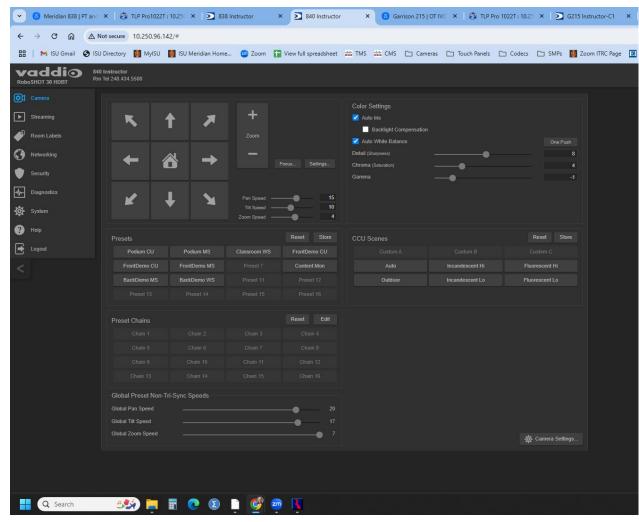








Vaddio Roboshot 30e





























































### **Frequently Accessed Software**

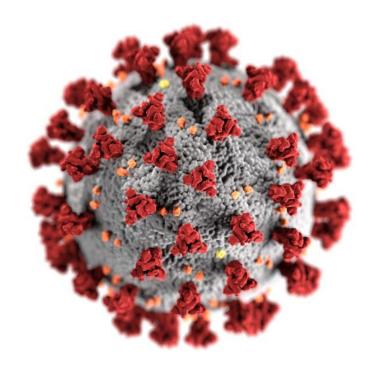
- ResSched (master resource scheduling)
- Cisco TelePresence Management Suite
- Google Calendar, Sheets
- Zoom Workplace
- Virtual camera controls
- Virtual touch panel controls
  - Extron, Logitech
- Cisco codec interface
- Extron DSP Configurator







## Friday, March 13, 2020





#### December 2019 = 10 million daily users



March 2020 = more than 200 million daily users -- The Verge





### "Ground Zero"







### Dr. Gerber's Research

Examined switching from synchronous videoconference delivery to hybrid.



#### Students:

- Technology = minimal adverse effect
- Increased stress
- More distractions

#### Faculty:

- Increased prep time
- Less reliance on charisma
- Decreased student interaction but better name recognition



### **Pros & Cons**









### **Pros & Cons**







### Related Research/Current Trends

- Phenomenology
- Immediacy
- Impact of decreased F2F
  - Interpersonal Skills
  - Communication
  - Clinical Skills "soft skills"



Whatuni.com





## ID Dept. of Labor "Hot Jobs"

SOC Code	Occupation	Jobs 2012	New Jobs by 2022		Annual New Openings	Annual Replacement Openings	Median Hourly Wage
29-1051	Pharmacists	1,332	431	2.8%	43	32	\$53.82
29-1141	Registered Nurses	12,276	2,225	2.48/	224	238	\$28.36
29-1123	Physical Therapists	1,142	360	2.8%	36	28	\$37.43
15-1132	Software Developors, Applications	1,732	385	2.0%	38	22	\$33.62
29-1071	Physician Assistants	676	223	2.9%	22	12	\$42.38
49-9041	Industrial Machinery Mechanics	1,788	548	2.7%	55	52	\$22.39
47-2111	Electricians	2,902	844	2.6%	84	55	\$21.21
29-2021	Dental Hygienists	1,116	241	2.0%	24	29	\$35.02
13-1161	Market Research Analysts and Marketing Specialists	1,485	474	2.8%	47	20	\$24.31
29-1171	Nurse Practitioners	556	167	2.7%	17	11	\$42.71

abung	JOBS are those that on average rank high in dance of jobs in the economy, jobs that are			the highest pay.
	ore detailed information on the rankings ar "Hot Jobs," visit our website at www.lmi.ida		ita, including a	list of the Top 100
Rank	Occupation / Required Degree	Annual Growth (# of Jobs)	Growth Rate	Median Wage
1 0	CONSTRUCTION MANAGERS Bachelor's degree	943	35.4%	\$37.05
	ST-LINE SUPERVISORS OF CONSTRUCTION, RADES & EXTRACTION WORKERS High school diploma or equivalent	1,755	39.0%	\$28.91
3	HAZARDOUS MATERIALS REMOVAL WORKER High school diploma or equivalent	s 327	46.8%	\$17.89
4	DENTAL HYGIENISTS Associate degree	561	27.4%	\$37.24
5	COST ESTIMATORS Bachelor's degree	476	34.7%	\$29.64
6	ELECTRICIANS High school diploma or equivalent	1,629	31.4%	\$23.28
7	REGISTERED NURSES Bachelor's degree	2,050	19.9%	\$36.32
8 E	NVIRONMENTAL ENGINEERS	174	34.7%	\$48.13



### **Instructor Perspective**

- Split personality
- Zoom may be an equalizer ... But –
   Students split as well
- More faculty in the program
  - Specialization / Expertise
- Takes thoughtful planning to do well

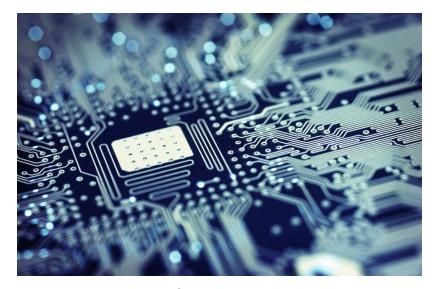


https://www.flickr.com/photo s/id-iom/9465345000





- Technology is a tool
- TIME must be scheduled
  - to prepare lessons
  - to train instructors, students
  - to coordinate before, during, after
  - to use intentionally



https://www.flickr.com/photos/9 2334668@N07/11123530043





- Zoom Room Underutilized Features
  - Al Summaries, BO Rooms, Chat, Whiteboards
- Selective use
  - Determine what mode of attendance and why
  - Be consistent for fairness among instructors and courses
  - Telehealth / AI health
    - Greater health inequity gap??





- Body of evidence in educational technology consistently suggest no significant difference between traditional modes of education and tech mediated modes in regard to student outcomes.
  - see Thomas Russell The no significant difference Difference Phenomenon
  - detaresearch.org
  - There are exceptions





#### However...

- Undeniable that our embodied experience is altered with technology-mediated education
  - Perception, thoughts, actions
  - How we feel about an experience
- In turn, this affects
  - Student/teacher satisfaction, retention
  - Engagement, career readiness, social skills

Worth Studying, Addressing!





### Thank You!

We invite your questions.

Please come tour ISU Meridian with NWMET!

