# 360° Impact

#### USI's Biometrix Discovery Lab

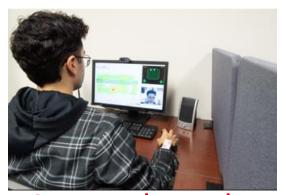
**Dr. Sudesh Mujumdar**, Dean of the Romain College of Business **Dr. Chad Milewicz**, Economics and Marketing Department Chair, Biometrix Discovery Lab Coordinator

Dr. Sabinah Wanjugu, Assistant Professor of Marketing

Board of Trustees Jan. 17, 2023



#### **Biometrix Discovery Lab**



Screen-based Eye-tracking



Mobile Eye-Tracking



Facial Expression Analysis

contempt

 lip corner tightened and raised on only



Electrodermal Activity

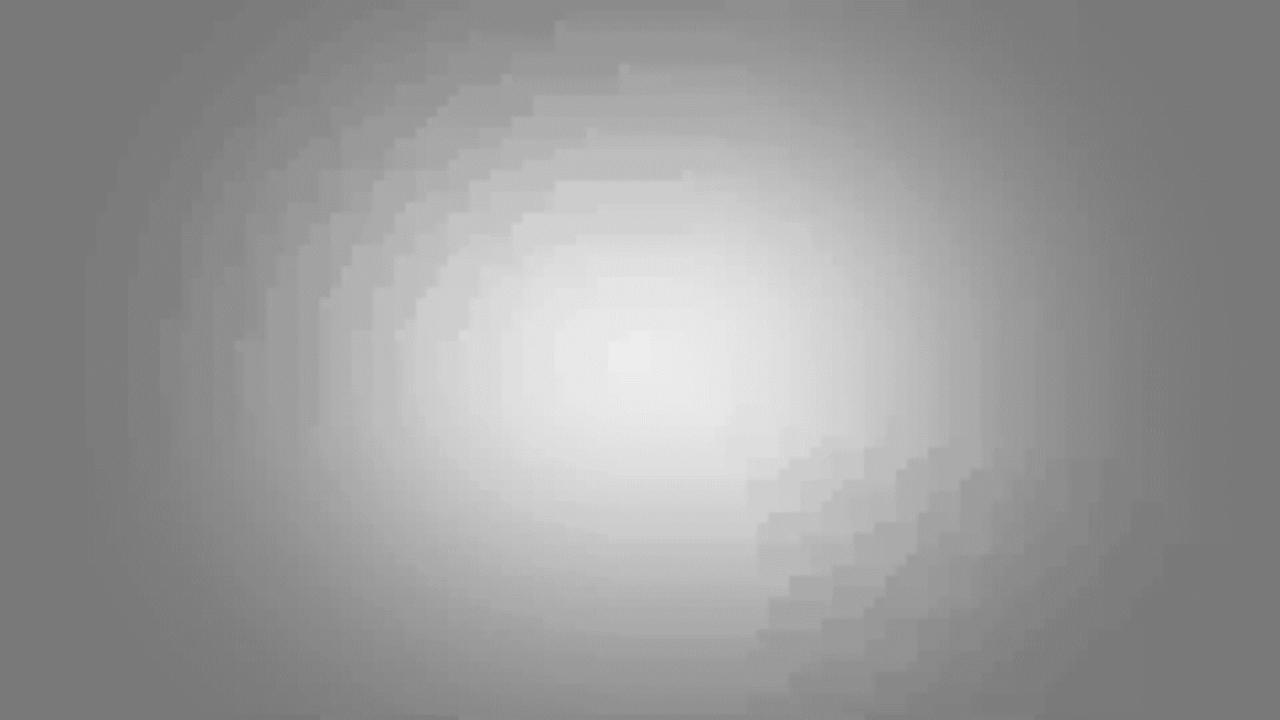
360° Impact

**Business Partnerships**,

State-wide Collaboration, Student engagement, Interdisciplinary Research

Picture Sources: USI Photography & Multimedia & IMOTIONS





## Elevating USI's Reputation

**Business Partnerships** 





**Blue Clover Studios** 

At Berry Global's industrial design studio, we elevate the world's leading brands through package design.

"Using mobile eye-tracking technology we are able to gain insights into human behavior that can support <u>#design</u> decisions. Through a partnership with the <u>University of Southern Indiana</u> we are pushing the boundaries on how this capability is utilized in our full stack of <u>#research</u> tools."



## **Elevating USI Reputation**

High-Impact Learning Experiences

State-wide Collaborations

# Indiana Commission for Higher Education Collaboration Digital Marketing Service Learning Project Opportunities for

Goal: Understand how CHE audiences are responding to the pages/information on their website



Collaboration benefits

Opportunities for professional development for faculty and students through research

Networking/internship opportunities for our students

Reputation by demonstration USI's commitment to research and innovation

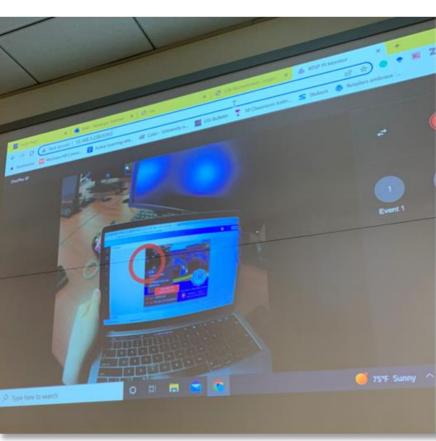
Real-world impact from research insights





#### Cutting Edge Technology in Marketing Education







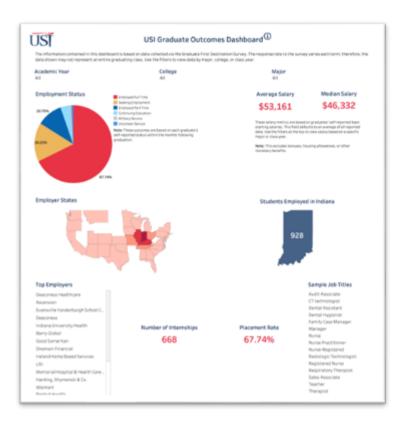


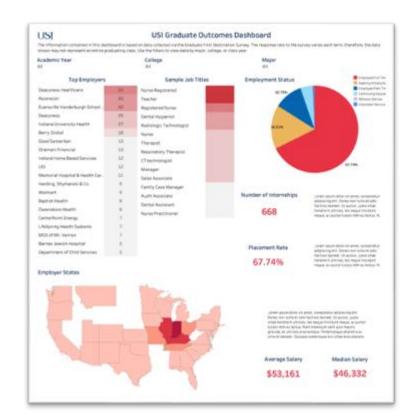
# Senior CIS Project Presented to IT Alliance "Before"

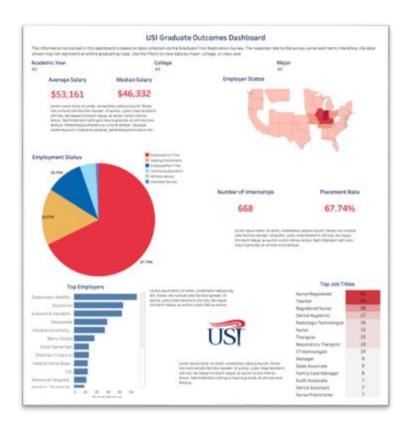




# Senior CIS Project Presented to IT Alliance "Process"



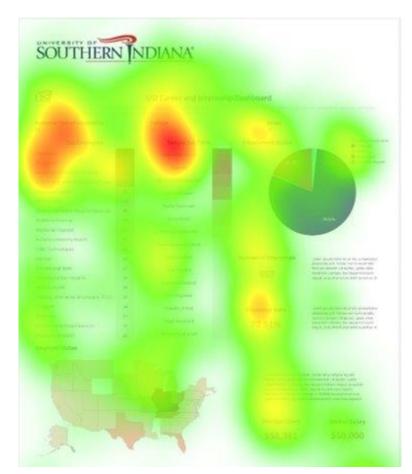


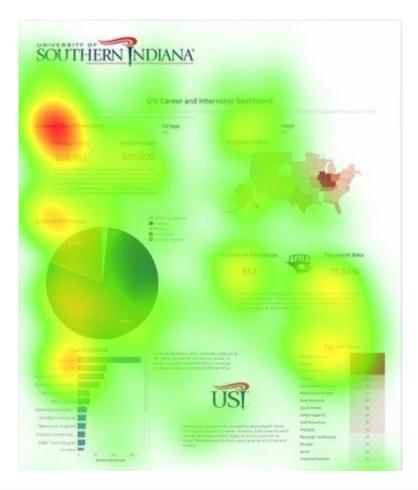




# Senior CIS Project Presented to IT Alliance "Process"

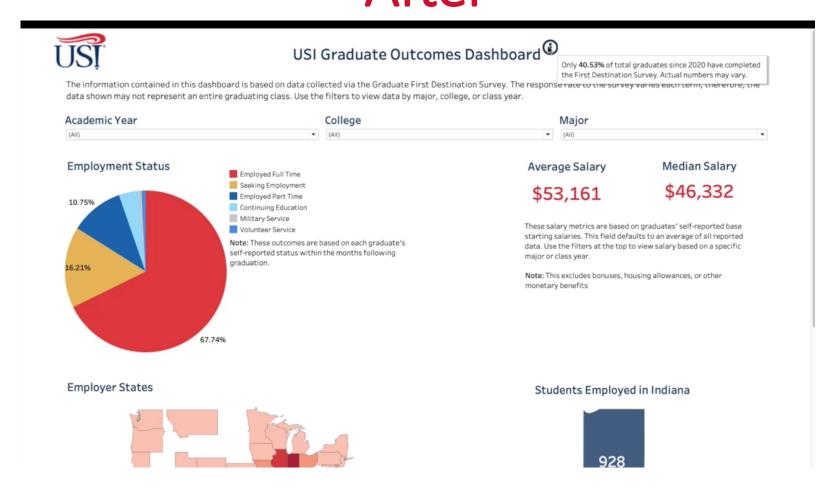








## Senior CIS Project Presented to IT Alliance "After"





## Co-Created Learning Experiences

Market Leading Insights

Real Impact

### Market-leading Insights for Entrepreneurs

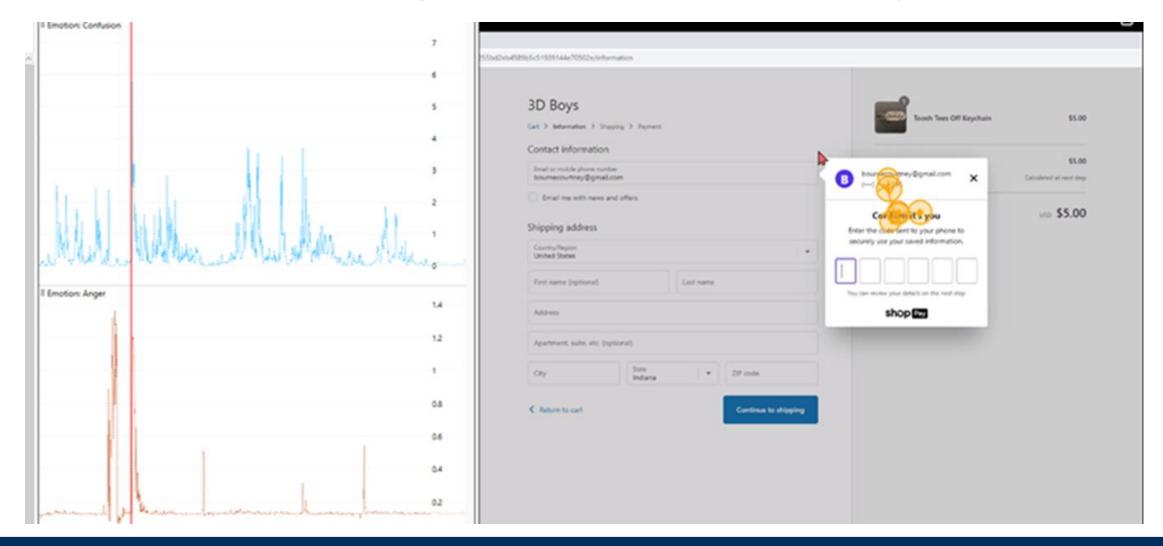




**Diego Socorro** – 3D Boys, 3D Printing Business



## Biometric Insights on User Experience



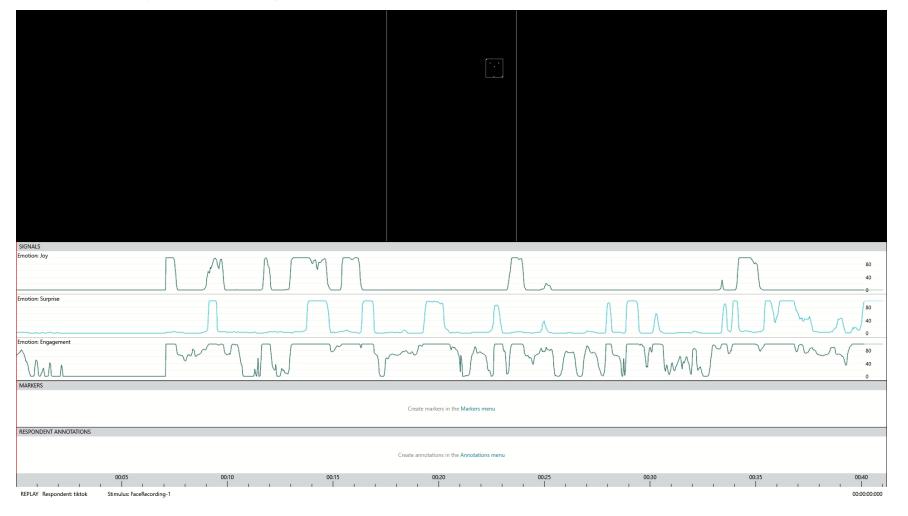


## Supporting Museum Web Design





## Analyzing Pre-recorded Video





## Interdisciplinary Research

## Biometrix Discovery Lab Research Members



Dr. Sabinah Wanjugu Assistant Professor of Marketing



Dr. Bohan Ye
Assistant Professor
of Economics



**Dr. Perry Burnett**Associate Professor of Economics



**Dr. Nicolas Jankuhn**Assistant Professor
of Marketing



# "Exploratory Discoveries from Eye-Tracking Tests of Wertheimer's Gestalt Patterns"



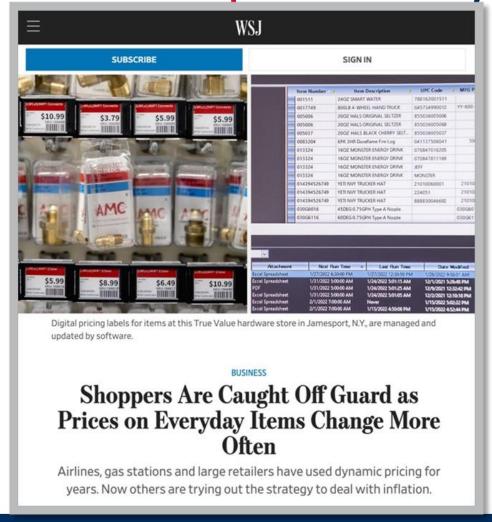
Source: Hu and Bacic (2021)

#### Interdisciplinary research conducted at USI

This **discovery** surprised us because, in **perception**, viewers **ignore** gaps to complete the form; therefore, the gap seems unimportant. However, it is the gap that draws **attention** and thus becomes the focus. In practice, a designer should wisely make use of the gaps instead of ignoring them."



## Is This a Fair Price? Using Neuroscientific Methods to Understand Fairness Perceptions of Dynamic Prices







This accommodation offer is for one of the seven hotels shown below. We can only tell you the name of the hotel after the booking has been confirmed. However, all the hotels offer the below-listed amenities.





Studying Attention to **Price Change** Information And Perceived **Fairness** 

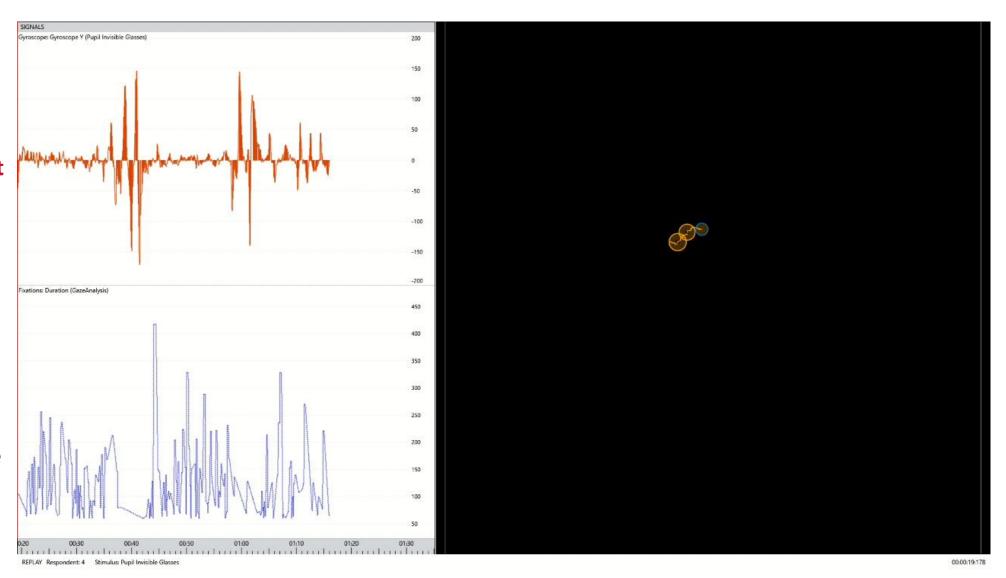


## **Exploring Solutions to Community Issues**

# Exploring Traffic Safety

Movement in graph = Moving head left-right

Higher Lines = Longer gaze time





## Knowledge for Life

Future opportunities

### 360 Degree Impact – The future

**Business Partnerships** – continuing to grow in scope and impact

**State-wide Collaboration** – in discussions with more partners and opportunities

**Students** – expanding impact across campus

**Research** – opportunities to collaborate across colleges and pursuing grants

**USI-hosted Biometric and Neuro conference - technology partner, iMotions, wants to explore**