

# Hamza Elhamdadi

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Graduate Researcher  
College of Information and Computer Sciences  
University of Massachusetts Amherst

**Website:** <https://hamza-elhamdadi.github.io>

**Email:** [helhamdadi@umass.edu](mailto:helhamdadi@umass.edu)

## Area of Expertise

Information Visualization, Data Communication, Trust in Data Visualization

## Education

In-Progress	University of Massachusetts Amherst	Ph.D. in Computer Science
2021	University of South Florida	M.S. in Computer Science
2020	University of South Florida	B.S. in Computer Science (minor: Mathematics)

## Research Positions

2021–	Graduate Student, UMass Amherst HCI-VIS Lab Advisor: <b>Cindy Xiong</b>
2019-2021	Research Assistant, USF Data Visualization Lab <i>Topological Data Analysis, Affective Computing Data Visualization</i> Advisor: <b>Paul Rosen</b>

## Selected Fellowships and Awards

2021	UMass Amherst Jumpstart Fellowship
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## Refereed Publications

2022	<b>Elhamdadi, H.</b> , Gaba, A., Kim, Y., & Xiong, C. How Do We Measure Trust in Visual Data Communication? IEEE VIS BELIV Workshop, 2022
2021	<b>Elhamdadi, H.</b> , Canavan, S., & Rosen, P. AffectiveTDA: Using Topological Data Analysis To Improve Analysis And Explainability In Affective Computing. IEEE VIS, 2021

2020                      Srivastava, S., Lakshminarayan, S., Hinduja, S., Jannat, S.R., **Elhamdadi, H.**,  
Canavan, S.  
Recognizing Emotion in the Wild using Multimodal Data  
ICMI, 2020

### **Lightly-Reviewed Workshop Papers**

2022                      **Elhamdadi, H.**, Padilla, L., & Xiong, C.  
Using Processing Fluency as a Metric of Trust in Scatterplot Visualizations  
IEEE VIS TREX Workshop 2022.

### **Conference and Workshop Talks**

2022                      **Elhamdadi, H.**, Gaba, A., Kim, Y., & Xiong, C.  
**How Do We Measure Trust in Visual Data Communication?**  
IEEE VIS BELIV Workshop, 2022.

2022                      **Elhamdadi, H.**, Padilla, L., & Xiong, C.  
**Using Processing Fluency as a Metric of Trust in Scatterplot Visualizations.**  
IEEE VIS TREX Workshop 2022.

2022                      Wilmer, J., **Elhamdadi, H.**, Savalia, T., & Zeb, T.B.A.  
**Data Visualization Micro-Talk.**  
Vision Sciences Society, 2022.

2021                      **Elhamdadi, H.**, Canavan, S., & Rosen, Paul.  
**AffectiveTDA: Using Topological Data Analysis To Improve Analysis And  
Explainability In Affective Computing.**  
IEEE VIS, 2021.

### **Refereed Poster Presentations**

2022                      **Elhamdadi, H.**, Padilla, L., & Xiong, C.  
**Processing Fluency Improves Trust in Scatterplot Visualizations.**  
IEEE VIS Posters 2022.

### **Teaching Experience**

#### *Teaching Assistant*

2022 Fall                      Programming Methodologies                      UMass Amherst

## **Professional Services**

### *Academic Service*

2021                  Student Volunteer  
IEEE VIS 2021

## **Undergraduate Students Mentored**

2021 –                  Guilherme Santos Rocha