Hamza Elhamdadi

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Work Experience

2021-Present	InfoVis Research Assistant	University of Massachusetts Amherst

- Describe approaches to using social science methods for measuring trust in visual data communication
- Investigate causes of distrust in visual data communication
- Investigate the link between processing fluency and trust in data visualizations

2019-2021	TDA Research Assistant	University of South Florida

- Used Ripser toolkit to create persistence diagrams for datasets in Euclidean metric space
- Implemented a metric-to-non-metric dissimilarity matrix function in python
- Created metric and non-metric persistence diagrams using ripser

2018-2020	IT Service Technician	University of South Florida

- Provide technical support to university students, staff and faculty via chat, email, phone, and in-person support
- Utilize the ServiceNow incident tracking system to manage and document end user requests
- Troubleshoot and resolve end-user application, operating system, and network-access issues

Refereed Publications

2022	**Elhamdadi, H.**, Gaba, A., Kim, Y., Xiong, C. How Do We Measure Trust in Visual Data Communication? *IEEE VIS BELIV Workshop, 2022.*
2021	**Elhamdadi, H.**, 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.*

Refereed Poster Presentations

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

Education

2021-2026	University of Massachusetts Amherst	Ph.D. in Computer Science
2020-2021	University of South Florida	M.S. in Computer Science
2016-2020	University of South Florida	B.S. in Computer Science (*minor: Mathematics*)

Skills

Programming	Python, Javascript, Typescript, d3.js, React, Bootstrap, Html, CSS, C++, C, Java, LaTeX
Spoken Language	English, Spanish, Moroccan Arabic