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

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Refereed Publications

2023 **Elhamdadi, H.**, Stefkovics, A., Beyer, J., Moerth, E., Bearfield, C. X., & Nobre, C. Vistrust: a Multidimensional Framework and Empirical Study of Trust in Data Visualizations *IEEE VIS, 2023.*

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