

Rosa Romero-Gómez

DATA VISUALIZATION RESEARCH ENGINEER · PH.D COMPUTER SCIENCE

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Work Experience

Uncharted Software Inc.

Washington D.C., USA

TEAM LEAD

August. 2020 - PRESENT

- Currently performing as team lead (remote team). Responsible for assigning tasks to team members, determining completion timelines and monitoring progress to communicate to upper-level management.

Uncharted Software Inc.

Washington D.C., USA

SENIOR RESEARCH ENGINEER

June. 2018 - PRESENT

- Leading the writing of research publications for fundamental-research projects at the company.
- Communication with domain experts and stakeholders to refine design requirements.
- Translation and synthesis of research findings and stakeholders' input into design requirements for visual modeling tools.
- Design and development of multiple network visualizations included in visual modeling tools using Figma, Vue.js, and d3.js.

Intelygenz Software

Madrid, Spain

DATA VISUALIZATION EXPERT - FREELANCE

May. 2018

- Design and development of a high-fidelity visualization prototype included in their Machine-Learning platform.

GaTech, Georgia Institute of Technology

Atlanta (GA), USA

POSTDOCTORAL RESEARCH SCHOLAR - DATA VISUALIZATION RESEARCH ENGINEER

Apr. 2016 - Apr.2018

- Research, design, and development of open-source visualization tools for network threat analysis.
- Supervision of master students conducting their master's theses on the development of visualization tools for network security.
- Conduct user studies with network threat analysts for usability of such visualization tools.

Kryptowire Mobile Enterprise Security

Fairfax (VA), USA

USER INTERFACE DESIGNER - FREELANCE

Feb. 2016 - Apr.2016

- Creation of low-fidelity sketches for dashboards included in their EMM (Enterprise Mobility Management) products.

UC3M, Universidad Carlos III

Madrid, Spain

RESEARCH AND TEACHING ASSISTANT

Feb. 2011 - Apr.2016

- Design and development of visualization prototypes for different application domains including power grid networks, emergency management, and cultural heritage.
- Research on how to assist designers on their visualization design processes for human-supervisory control systems.
- Teach undergraduate-level courses in User Experience(UX) design, Human-Computer Interaction(HCI), and introduction to programming.
- Supervision of undergraduate students conducting final year project dissertations on building visualization prototypes.

Education

UC3M - Universidad Carlos III

Madrid, Spain

PH.D. COMPUTER SCIENCE AND TECHNOLOGY

Oct. 2010 - Jan. 2016

- Specialty: Human-Computer Interaction, Information Visualization.

UC3M - Universidad Carlos III

Madrid, Spain

M.SC. COMPUTER SCIENCE AND TECHNOLOGY

Sep. 2009 - Sep. 2010

- Specialty: Distributed, multimedia, and secure systems.

Skills

Programming Vue.js, d3.js, Typescript, cytoscape.js, python, node.js, HTML, CSS

Design Figma

Tools Jira, Git, LaTeX

Languages English, Spanish

Honors & Awards

2017 **Winner - Best Paper Award**, IEEE Symposium on Visualization for Cyber Security

Phoenix (Arizona),

USA

Publications (selected)

A mixed-Initiative visual analytics approach for qualitative causal modeling

2021 IEEE VIS: VISUALIZATION AND VISUAL ANALYTICS

2021

Husain, F.; Proulx, P.; Chang, M.; **Romero-Gomez, R.**; and Vasquez, H.

A multi-scale visual analytics approach for exploring biomedical knowledge

12TH WORKSHOP ON VISUAL ANALYTICS IN HEALTHCARE - IEEE VIS

2021

Husain, F.; **Romero-Gomez, R.**; Kuang, E.; Segura, D.; Carolli, A.; Liu, L.; Cheung, M.; and Paris, Y.

Towards designing effective visualizations for DNS-based network threat analysis

2017 IEEE SYMPOSIUM ON VISUALIZATION FOR CYBER SECURITY (VIZSEC)

2017

Romero-Gomez, R.; Nadji, Y.; and Antonakakis, M.

Multi-view visualizations for emergency communities of volunteers

JOURNAL OF VISUAL LANGUAGES & COMPUTING

2014

Herranz, S.; **Romero-Gomez, R.**; Diaz, P.; and Onorati, T.

Envisioning grid vulnerabilities: multi-dimensional visualization for electrical grid planning

PROCEEDINGS OF THE INTERNATIONAL WORKING CONFERENCE ON ADVANCED VISUAL INTERFACES

2012

Romero-Gomez, R.; Diez, D.; Wittenburg, K.; Díaz, P.

Extracurricular Activity

IEEE VIS: Visualization and Visual Analytics

PAPER REVIEWER - VOLUNTEER

Virtual

May 2021 - Present

18th IEEE Symposium on Visualization for Cyber Security

PROGRAM CO-CHAIR - VOLUNTEER

Virtual

May, 2021 - Oct. 2021

17th IEEE Symposium on Visualization for Cyber Security

PUBLICATIONS CHAIR - VOLUNTEER

Remote

May, 2020 - Oct. 2020

IEEE Symposium on Visualization for Cyber Security

PAPER REVIEWER - VOLUNTEER

Virtual

May 2018 - Present

Science for The People - Atlanta Chapter

RESEARCH VOLUNTEER

Atlanta (GA), USA

Feb. 2017 - Aug. 2018