

**EDUCATION**

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- M.S. Computer Science (Online)**, Georgia Tech August 2019-Present
- M.S. Visualization (Computer Graphics)**, Texas A&M, GPA: 3.85 May 2017
- B.S. Civil Engineering, E.I.T.**, Texas A&M, GPA: 3.62 May 2014
- Spain Study Abroad: Water Resources and GIS May - July 2013
  - Minor in Art

**TECHNICAL SKILLS**

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**Programming:** Python, Java, JavaScript, C/C++, C#**Software & Tools:** TensorFlow, Git, D3, Docker, Angular, Akka, Redis, Unity 3D**EMPLOYMENT HISTORY**

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- L3/L3Harris - Concept:** Software Engineer II, Big Data Jan 2018- Present
- Applying deep learning techniques in the domain of radio frequency and natural language processing
  - R&D project team lead of 5 member project to detect quality of streaming audio
  - Aided in development of reinforcement learning model to safeguard RF transmissions in a denied environment
- Research Assistant:** Memorability of Enhanced Informational Graphics May 2017 - Dec 2017
- In charge of experiment design, data collection with Redis, and developing a web tool for testing
- Oak Ridge National Laboratory:** Data Visualization Research Intern May - July 2016
- Developed a web tool to visualize cyber alerts using React.js and d3.js
  - Visualized LDA topic modeling output over time
- Teaching Assistant:** Art History, Creating Digital Environments Jan 2015 - May 2017
- Research Assistant:** Developed interactive virtual prototype of musical sculpture (Unity/C#) Aug - Dec 2014
- Bleyl & Associates:** Paid Engineering Internship May - Aug 2012, 2014
- Communicated with city vendors on behalf of engineers and clients
- Engineering Peer Mentor:** Part time tutoring for the Department of Engineering Aug 2012 - May 2014

**PUBLICATIONS**

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- **Alyssa Peña**, Eric Ragan, and Julian Kang. "Designing Educational Virtual Environments for Construction Safety: A Case Study in Contextualizing Incident Reports and Engaging Learners", Human-Computer Interaction International (HCII), Orlando, FL, 2019
- **Alyssa Peña**, Theodora Chaspari, and Eric Ragan, "Detecting Changes in User Behavior to Understand Interaction Provenance during Visual Data Analysis", User Interfaces for Building Knowledge (UIBK) Workshop at IUI, Los Angeles, CA, 2019
- **Alyssa Peña** and Eric Ragan, "Contextualizing Construction Accident Reports in Virtual Environments for Safety Education", Poster at IEEE VR, Los Angeles, 2017.
- Rhema Linder, **Alyssa Peña**, Sampath Jayarathna and Eric Ragan. "Results and Challenges in Visualizing Analytic Provenance of Text Analysis Tasks Using Interaction Logs", Logging Interactive Visualizations and Visualizing Interaction Logs (LIVVIL) Workshop at IEEE VIS, Baltimore, MD, Oct. 23-28, 2016.

**ORGANIZATIONS AND AWARDS**

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- ACM, ACM-W:** Member 2019 - Present
- Oral Presentation Subject Area Award:** Student Research Week, Architecture Mar 2017
- Grace Hopper (Women in Computing):** Student Volunteer Oct 2016
- ACM SIGGRAPH:** Member and Student Volunteer Jul 2014, Jul 2015
- Department of Visualization Scholarship** 2014
- College of Engineering Scholarship** 2013-2014