

EDUCATION

- 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
- Minor in Art
- Study Abroad**, Texas A&M May - July 2013
- Spain Engineering: Water Resources and GIS

TECHNICAL SKILLS

Programming: JavaScript, Python, Java, C/C++, C#
Software & Tools: TensorFlow, Git, Angular, D3, Akka, Redis, Unity 3D, Autodesk Maya

EMPLOYMENT HISTORY

- L3-Comcept:** Software Engineer, Big Data Jan 2018- Present
- Radio frequency and natural language processing R&D, applying deep learning techniques
- Research Assistant:** Infographic Chart Recall May 2017 - Dec 2017
- Studying how illustrated charts effect knowledge retainment
 - 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:** Symphonic Infinitum Aug - Dec 2014
- Developed interactive virtual prototype of musical sculpture using Unity and scripting in C#
- 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

- **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, Forthcoming
- **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, Forthcoming
- 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.
- **Alyssa Peña** and Eric Ragan, "Contextualizing Construction Accident Reports in Virtual Environments for Safety Education", Poster at IEEE VR, Los Angeles, 2017.

ORGANIZATIONS AND AWARDS

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