



Motivation

- Being able to effectively explain complex research outside academia is incredibly important-for networking, collaborating, teaching, and leading
- Graphics can help, yet graduate education in STEM focuses on data visualization designed for academic papers and talks
- These graphics may not be easy for non-experts to read, limiting the learning motivation and engagement of the public

Five-Part 30-min Webinar Series

- The live webinar series was held on Zoom in April 2021 (20-min general info+ 10-min live hands-on activities) Each session covered one topic in 30 min to enable
- asynchronous review in between and reduce Zoom fatigue **Collaborator–Communication:** Mary Martin-Mabry, Director
- of Communications and Marketing for Public Scholarship and Engagement (PSE)

• PSE had previously developed a workshop on public communication of research values

- **Collaborator–Visualization:** Dr. Chris Simmons, Associate Professor of Food Science and Technology (FST)
 - Dr. Simmons had previously developed a workshop on 3D visualization and web deployment for FST students
- We adapted the workshops for graduate students and postdocs in all major
- We also developed a case study by applying the skills introduced in the webinar series to a research project



Seeing is Believing: Communicating Research through Virtual Worlds

Jiyoon Yi Food Science Graduate Group, UC Davis

Project Goal

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To provide graduate students and postdocs with resources to visualize scientific data for public communication purposes using a web-virtual reality (VR) tool that brings an interactive experience to target audiences

Audience Persona Analysis Sample Worksheet





Creating a Web-VR Page with **A-Frame**



An example Virtual Laboratory











Feedback **38** complete feedback provided through Qualtrics survey created for post-event evaluation after each session Planning to apply the learned skills to your research project? Stongly disagree 35% Definitely 65% Stongly agree 81% Neither likely/unlikely Extremely unlike Extremely like 62%

Many attendees expressed that the live hands-on activities &

Attendees indicated that this webinar series provided a good starting point to increase the impact of their research

Resources & Future Plans

The recording of the general info part is available on the GradPathways Institute YouTube channel More resources related to public communication • publicengagement.ucdavis.edu/communicating-public-

Given the positive feedback from attendees and interest in applying this approach to their research projects, Dr. Simmons and I will **continue to promote the recording**, especially to STEM majors, and write a paper in an education journal

Acknowledgements

Mary Martin-Mabry and Dr. Chris Simmons, who were extremely generous with their time and in adapting their inperson workshops to this webinar series

Teresa Dillinger and Ellen Hartigan O'Connor, who organized PFTF this year and supported me in structuring this new

David Blancha for editing recordings to post them on YouTube, and Olga Garzón for logistics and advertising Public Scholarship and Engagement for co-sponsorship My PFTF cohort, from whom I learned a great deal over the