

*Experimental and cruise participation*

It is likely that I will be working with the research groups who are measuring TEIs in the GEOTRACES samples from this new section, given that I have gained an extensive experience from the previous cruises on determining high-quality datasets of the most critical trace elements (Fe, Mn, Cd, Cu, Zn), and that there are still problems in such measurements among the research groups. Secondly, I may be involved in the groups working on speciation of trace metals through onboard experiments. Therefore, attending this workshop could be useful for me to help the PIs plan an efficient and prolific research for this section, or I may prepare proposals as PI or Co-PI.

*Simulation and theoretical*

Since I am currently working on trace metal modeling in a global context, I can help in producing prognostic simulation of trace metals along this new section to predict what features might be visible in data sets. Moreover, after measurements are done, diagnostic modeling can be applied to identify and quantify the processes. This new section is a good candidate for research on trace metal modeling because it makes a closed system on the Eastern Pacific along with the section from Ecuador to Tahiti (GP16).