* **Descriptions**: These should be around 150 words, and written in a way that will attract your target audience (thinking of ALS attendees is probably a good way to go, since this follows directly on from ALS). Given that one motivation is to showcase CoEDL work, if there is a way you can mention CoEDL in your blurb, that would be great (but if that doesn’t work, then no worries).
* **Title**: Please check if the current title is what you will use, or change it if you want to.
* **Presenters**:
  + Blurb of around 80 words for each presenter – affiliation, background etc.

This masterclass will show how computational methods can be used to amplify the efforts of fine-grained linguistic typology to answer core CoEDL questions of how and why languages differ.

The course will take us through the typological data cycle and show how we can use computational methods to collect, manage, analyse and share typological data. We will see how current methods from data science allow us to increase the quantity and quality of our typological data as well as make it available to other researchers in online repositories. We will see how to build typologies using modern typological frameworks and how to develop these into explicit linguistic models in order in order to classify our data with precision, speed and detail.

The course will focus on the typology of morphological exponence but will be generalisable to any linguistic domain.

Matthew J Carroll (Matt) is a Research Fellow at the CoEDL ANU node and a visiting fellow at the Surrey Morphology Group where held aNewton International Fellowship.He researches the extent, emergence and maintenance of morphological complexity using traditional qualitative linguistics enhanced with computational methodologies. Matt has worked extensively with speakers of Yam family languages who live in West Papua.

* Data cycle
  + Collect, manage, and deploy(?) the data
* Data analysis
  + Build models to analyse cross-linguistic data