

#### Dr. Field presentation

- Polycrystalline structures (metals and ceramics)
- Electron microscopy (EBSD, Bragg's law)
  - o Finding the d-spacing
- Developing heterogeneous materials to improve properties.
  - o Friction stir welding.
  - o Improve both ductility and strength.
  - o Measuring dislocation density with and without strain.
- Shape forming (PNNL).
  - o Better forming of metals not typically flexible, like aluminum
  - o most frequently used for hexagonal metals.

#### If interested in research

- Look through the MME faculty list and see what's interesting then email the professor.
- Ask people who know or are in the lab for advice.