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Brief Summary

Salt structures are part of many sedimentary basins worldwide and often serve as traps for oil and gas reservoirs. Seismic reflection data and velocity models play a key role in interpreting such salt structures. However, published velocity data for evaporites is rare and often confined to simple end member minerals (halite, anhydrite, gypsum). Further, salt bodies are treated as homogeneous in composition and structure or assumed to be seismically isotropic. The focus of this PhD project is on quantifying the microstructural, mineralogical and geophysical characteristics and their contribution to seismic velocity anisotropy of salt bodies.

Education: Bachelor and Master in Geosciences at Goethe University Frankfurt, Germany

Research interests: Rock salt deformation, Seismic imaging, Microtectonics, Deformation mechanisms

Thesis title: Listening through rock salt: Quantifying petrofabrics and seismic velocity anisotropy of evaporites to improve seismic imaging

Supervisors: Nick Timms & Chris Elders at Curtin
David Healy & Enrique Gomez Rivas at University of Aberdeen

Publications: (Reference to publications) Insert text here

Conferences: (Give titles of any presentations here) Insert text here

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