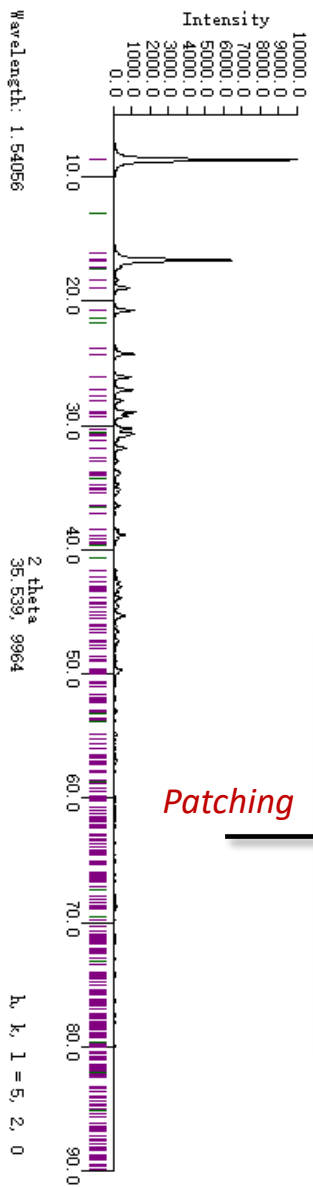
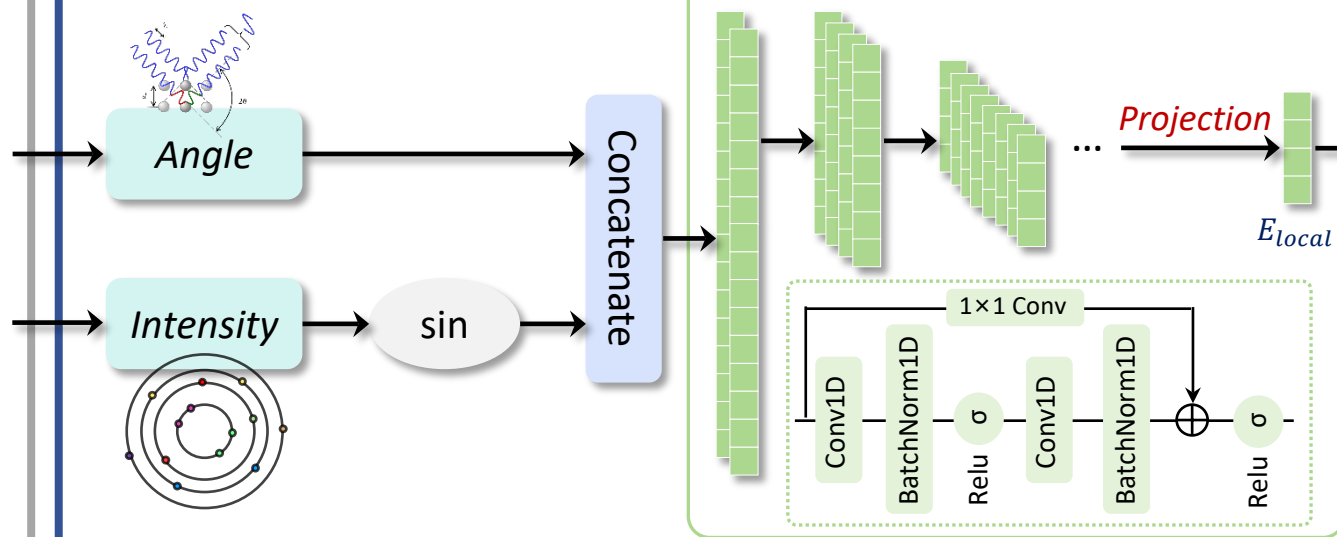


PXRD Pattern

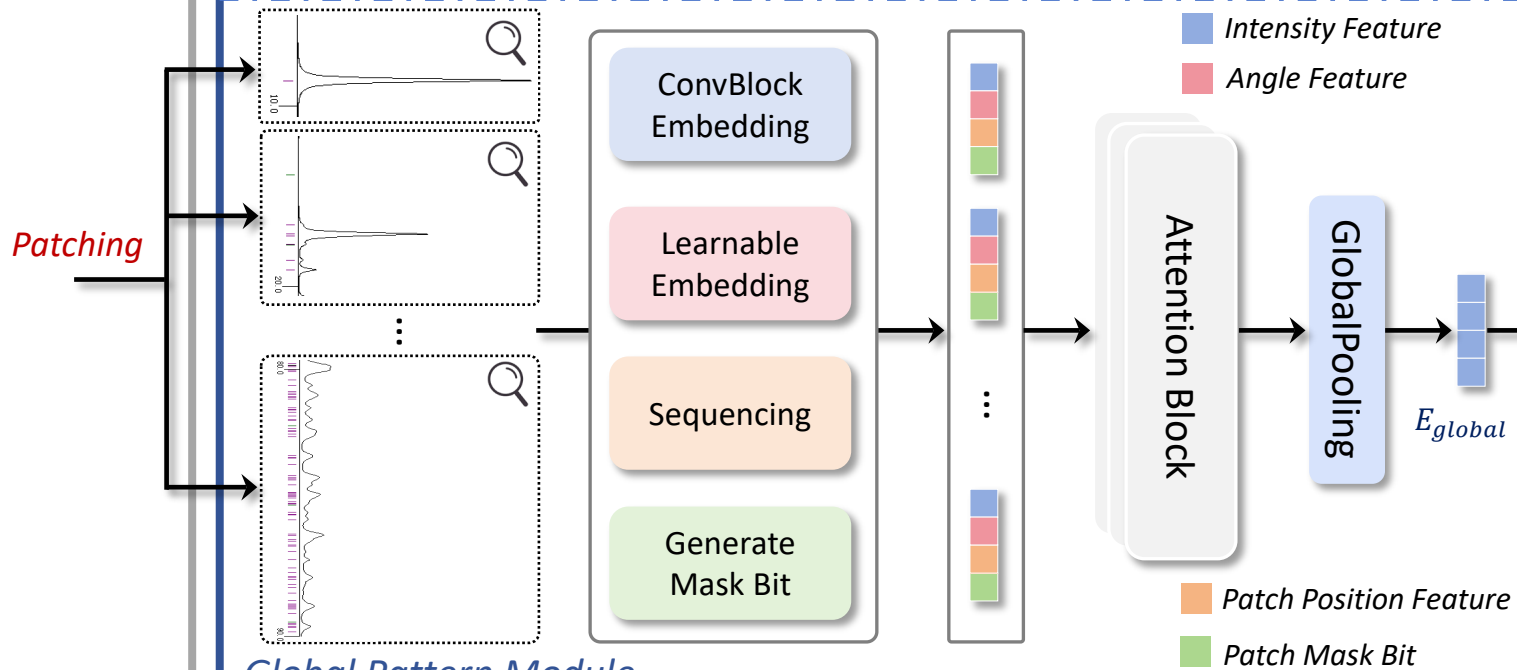


Hierarchical PXRD Pattern Learning

Local Pattern Module



Global Pattern Module



Superclass-Guided Optimization

