OVERALL MOTIVATION AND GOALS

Musical Models with a Purpose: support serious applications in music research and education.

Required Model Properties: stylistically faithful, tightly controllable, transparent, explainable.

Modeling Model Principles: Doma	•	Music Performanc	Expectancy e ("Listening")
Structured Modeling (rather than end-to-end learning)	disentangled rep	a <mark>nsfe</mark> r learning; learn presentations; intuitive nc <mark>ept</mark> -based explanat	e mi <mark>d-le</mark> vel concepts and
Multi-level & Multi-scale Modeling (rather than note-by-note prediction)	models; joint pre	pr <mark>edic</mark> tion at different ediction of multiple mu ra <mark>tion</mark> & expectancy;	· ·
Exploiting Musical Knowledge (rather than pure data-driven learning)	musical language	e <mark>mo</mark> dels; exploit mu	/pro <mark>bab</mark> ilistic reasoning; sic-analytical concepts & tools; I model architectures;

Concrete Simulation & Application Scenarios:

Musicological Studies (with musicologists)
Creative / Didactic Tools and Exhibits (science museums etc.)
Public Educational Events ("what-if" concerts etc.)
Web-based Simulators