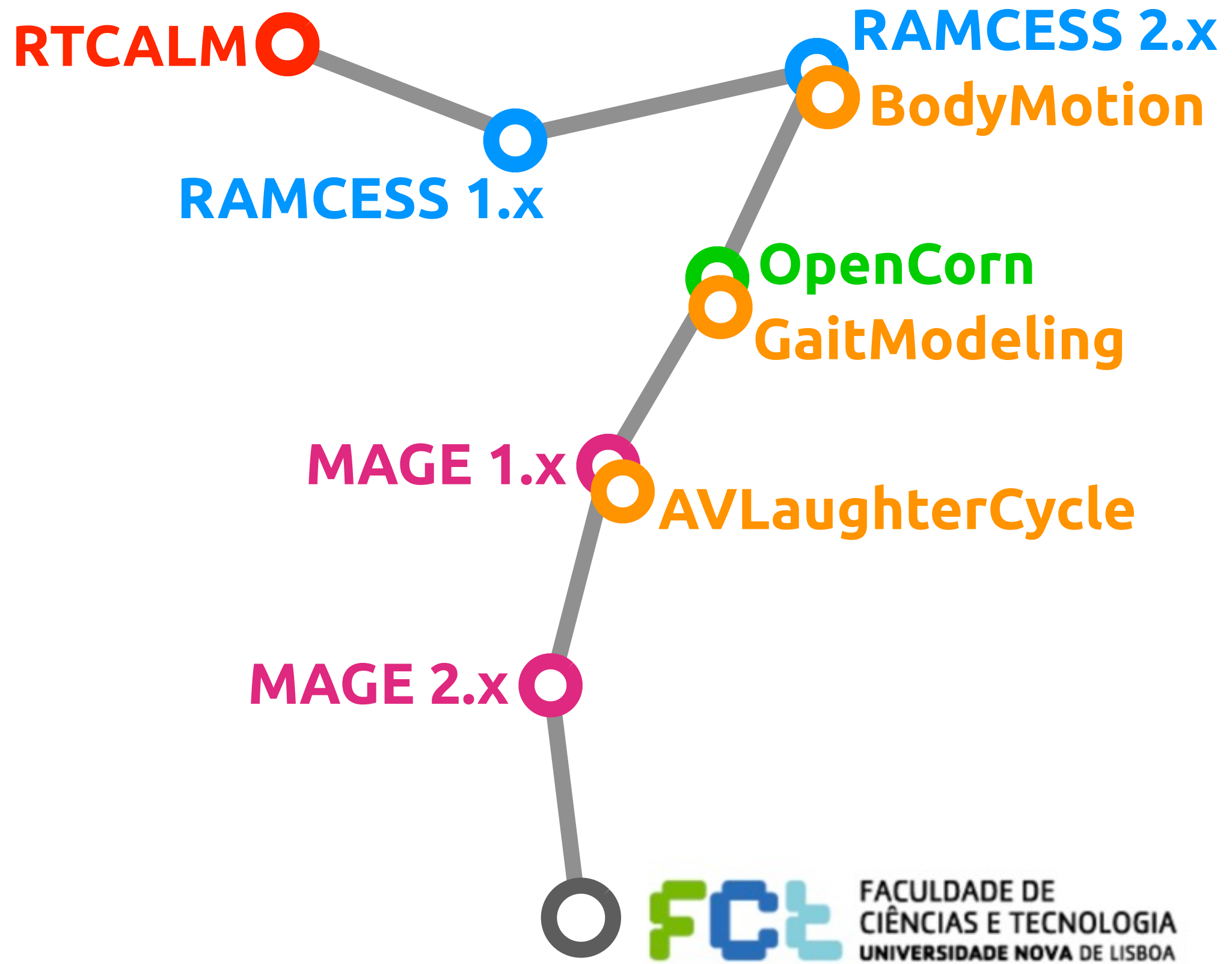


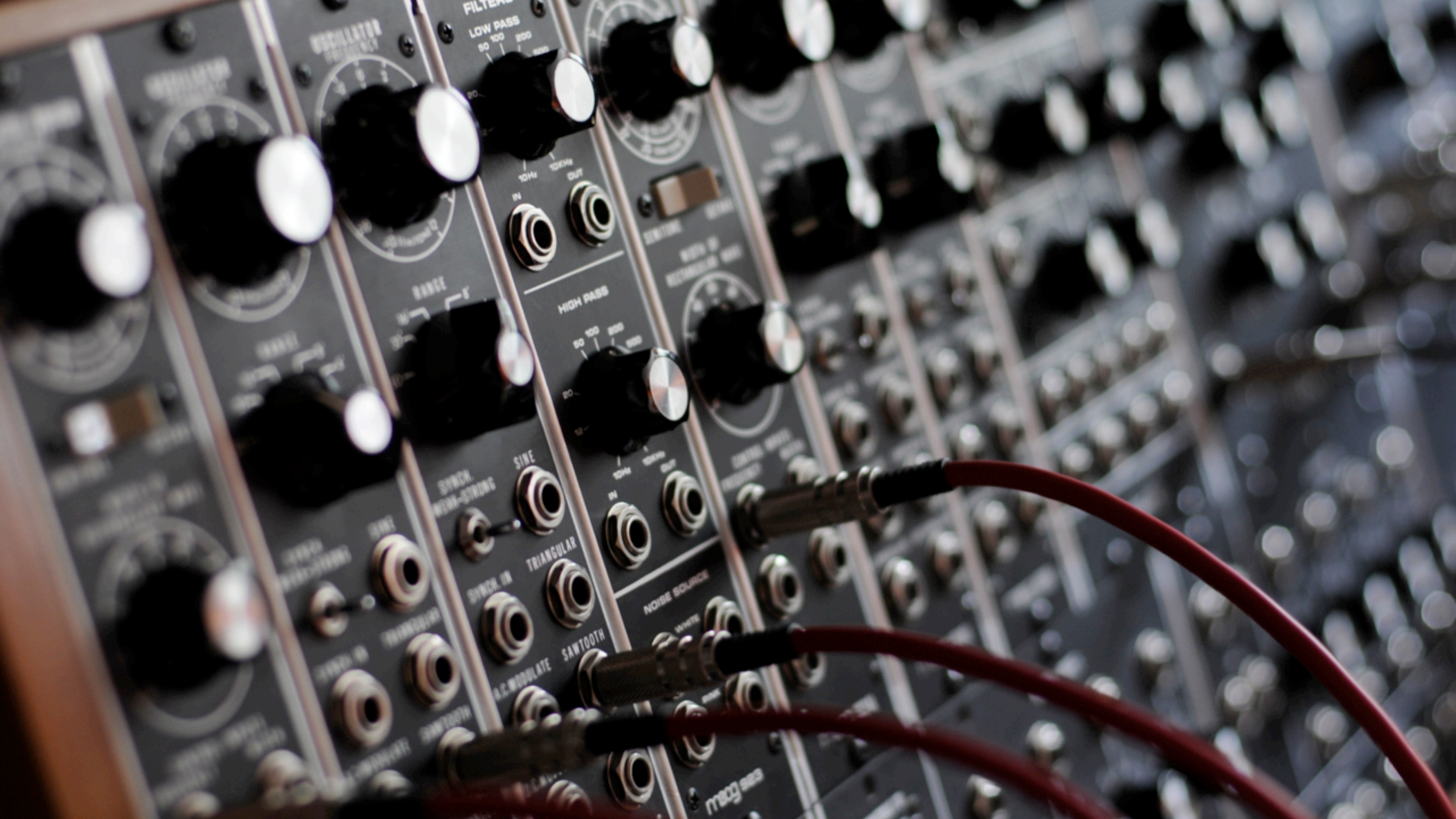
Reactive Statistical Mapping: Towards the Sketching of Performative Control with Data

eNTERFACE 2013 Summer Workshop on Multimodal Interfaces

N. d'Alessandro, M. Astrinaki, O. Babacan, A. Barbulescu, H. Cakmak, R. Dall, Q. Hu, T. Hueber, V. Huguenin, S. Kalayci, A. Moinet, V. Parfait, T. Ravet, J. Tilmanne



what do we want to do?
explore HMM-based techniques used in
speech synthesis as a statistical mapping
layer in multimodal **performative** systems



OSCILLATOR
FREQUENCY

LOW PASS
50 100 200

HIGH PASS
50 100 200

RANGE

SINE

TRIANGULAR

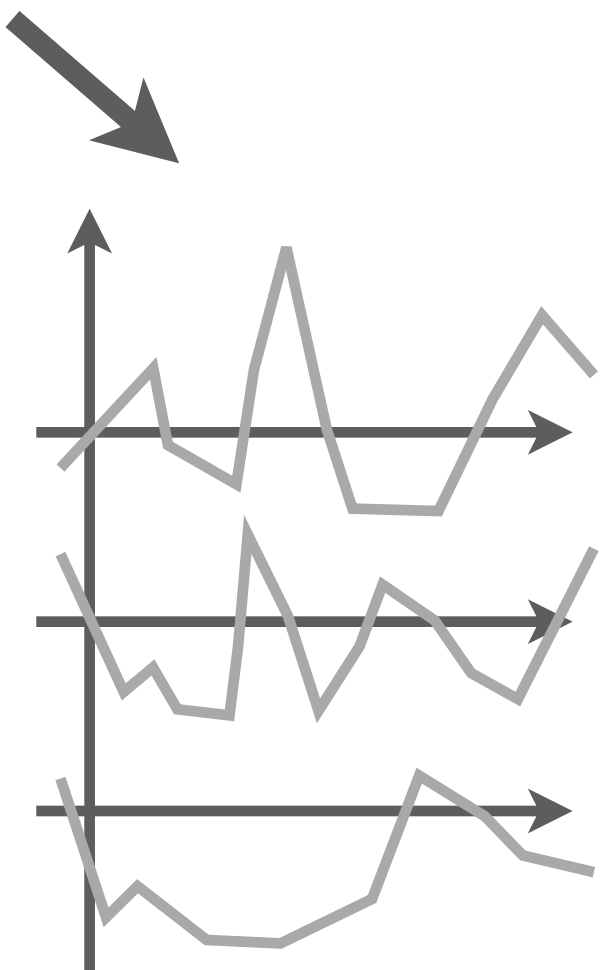
SAWTOOTH

NOISE SOURCE

mag base



interface

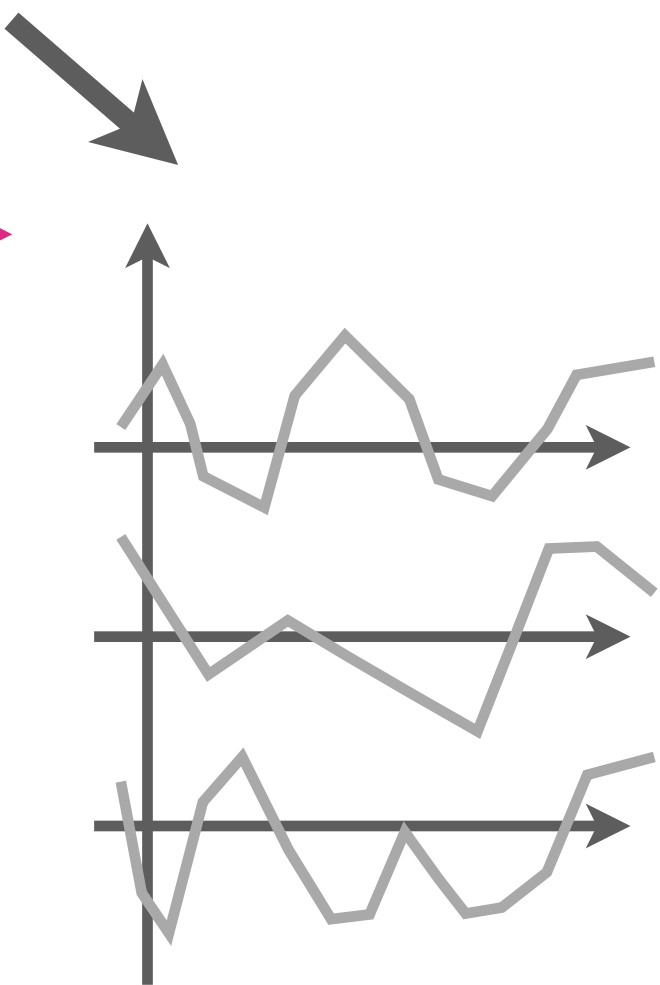
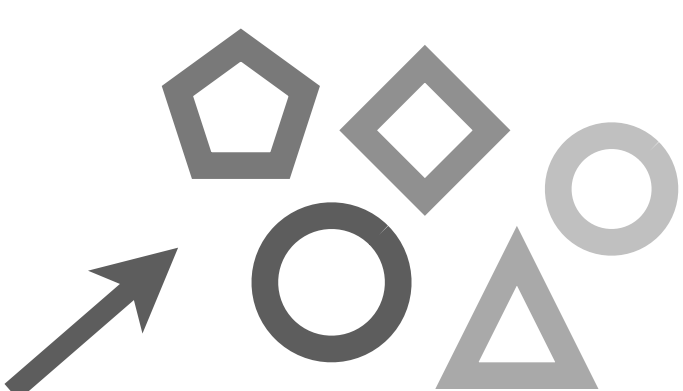


mapping

realtime

reactive

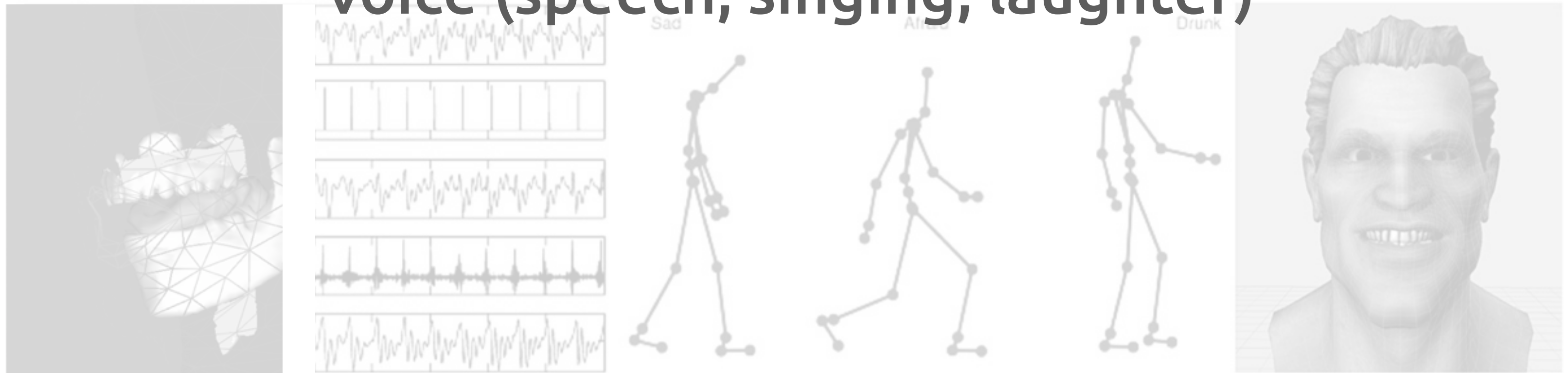
meaningful



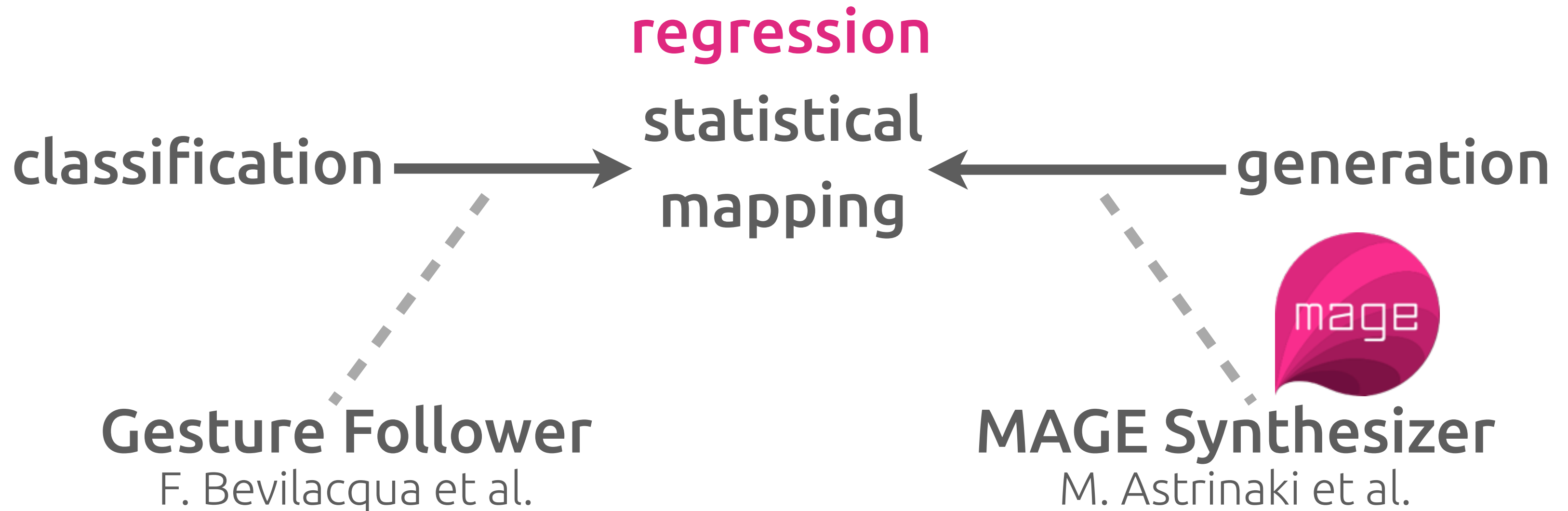
statistical mapping
“rules suck, data rocks!”



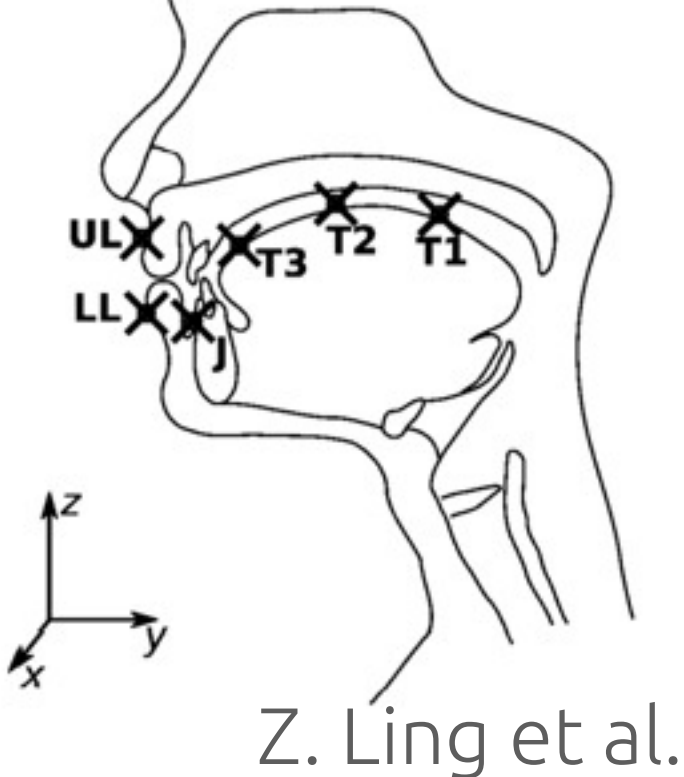
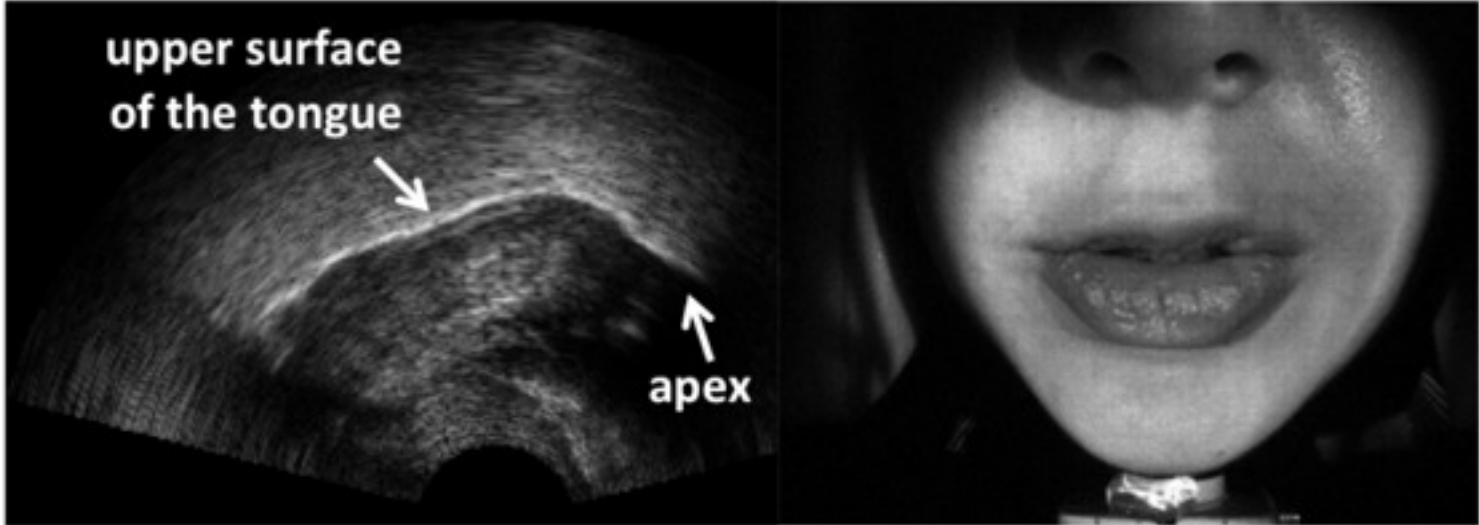
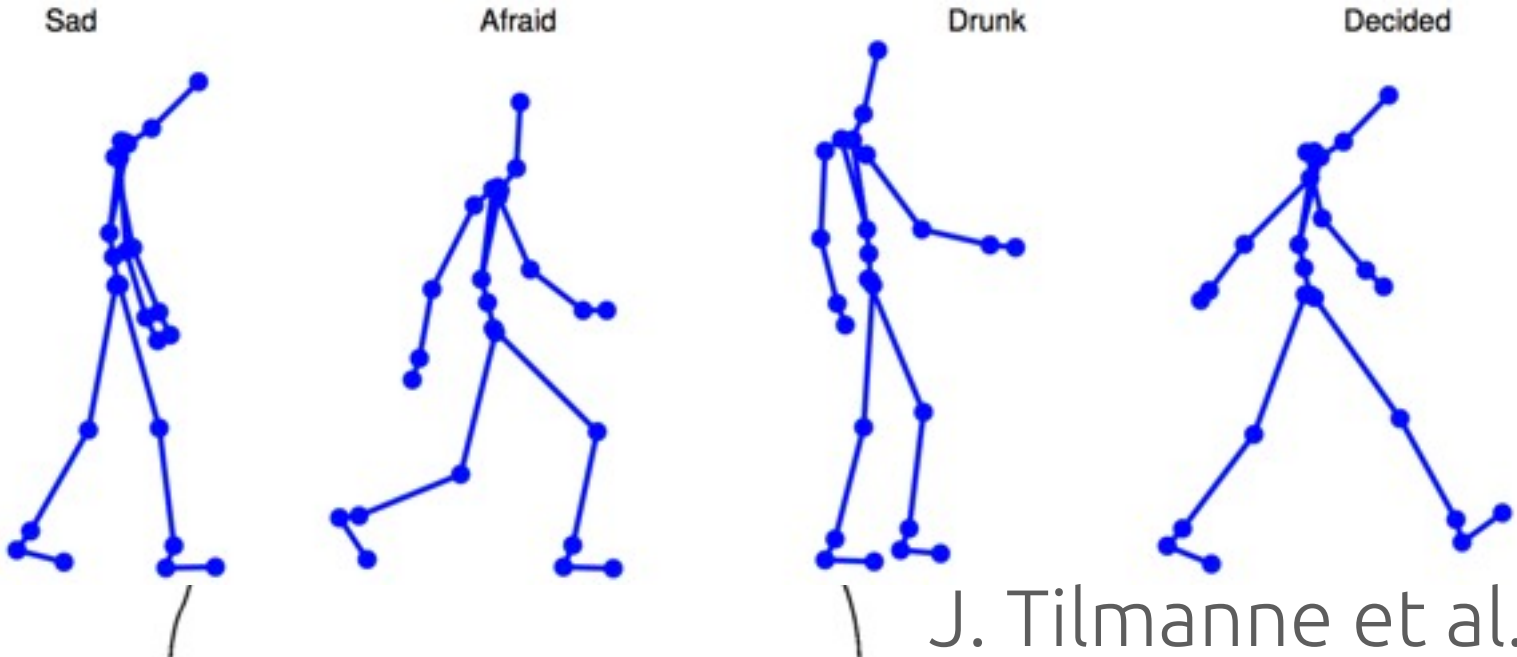
**mocaped facial and body motion
voice (speech, singing, laughter)**

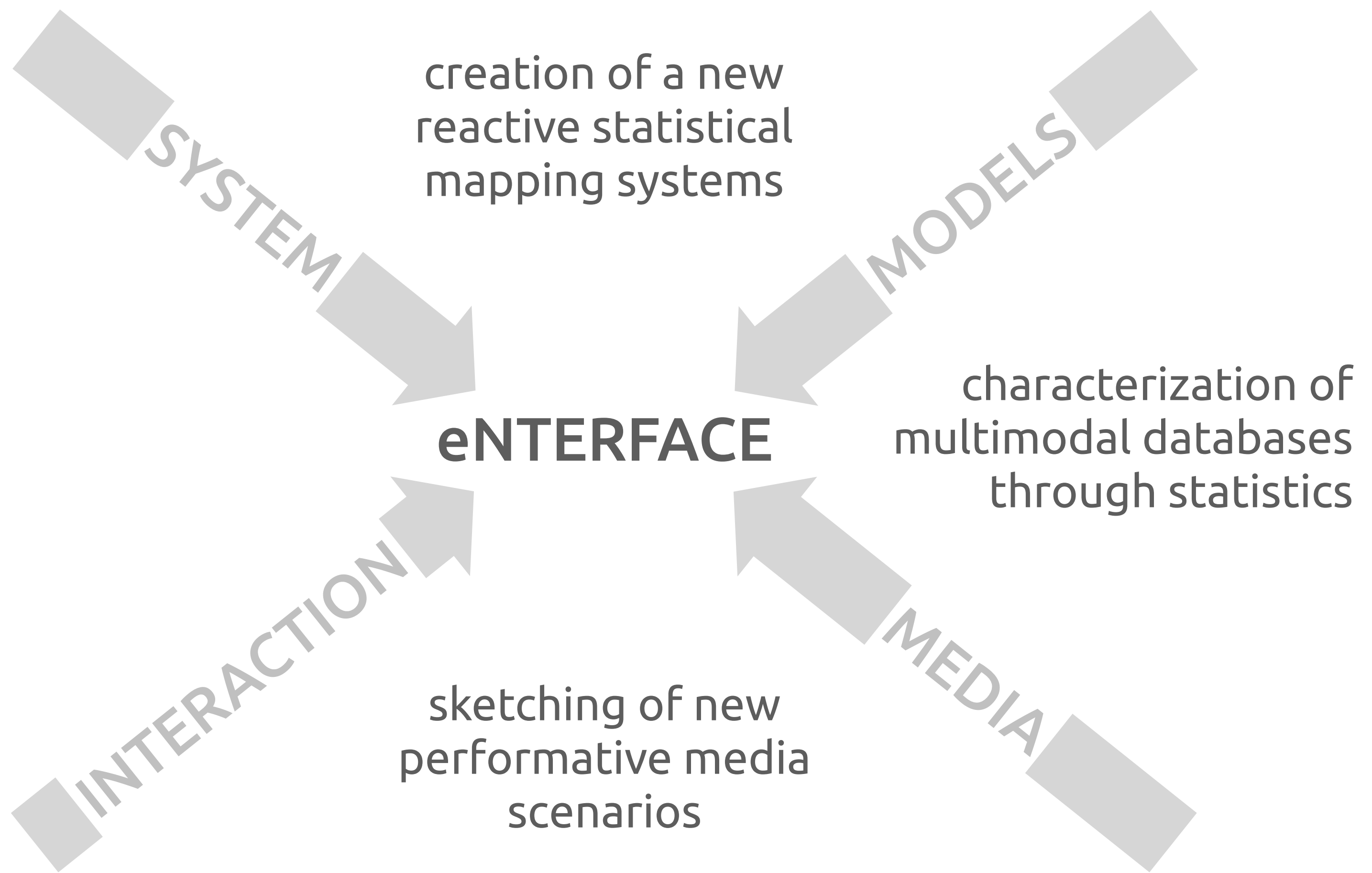


Hidden Markov Models in Performative Systems



Hidden Markov Models in Media Synthesis





creation of a new reactive statistical mapping systems

characterization of multimodal databases through statistics

sketching of new performative media scenarios

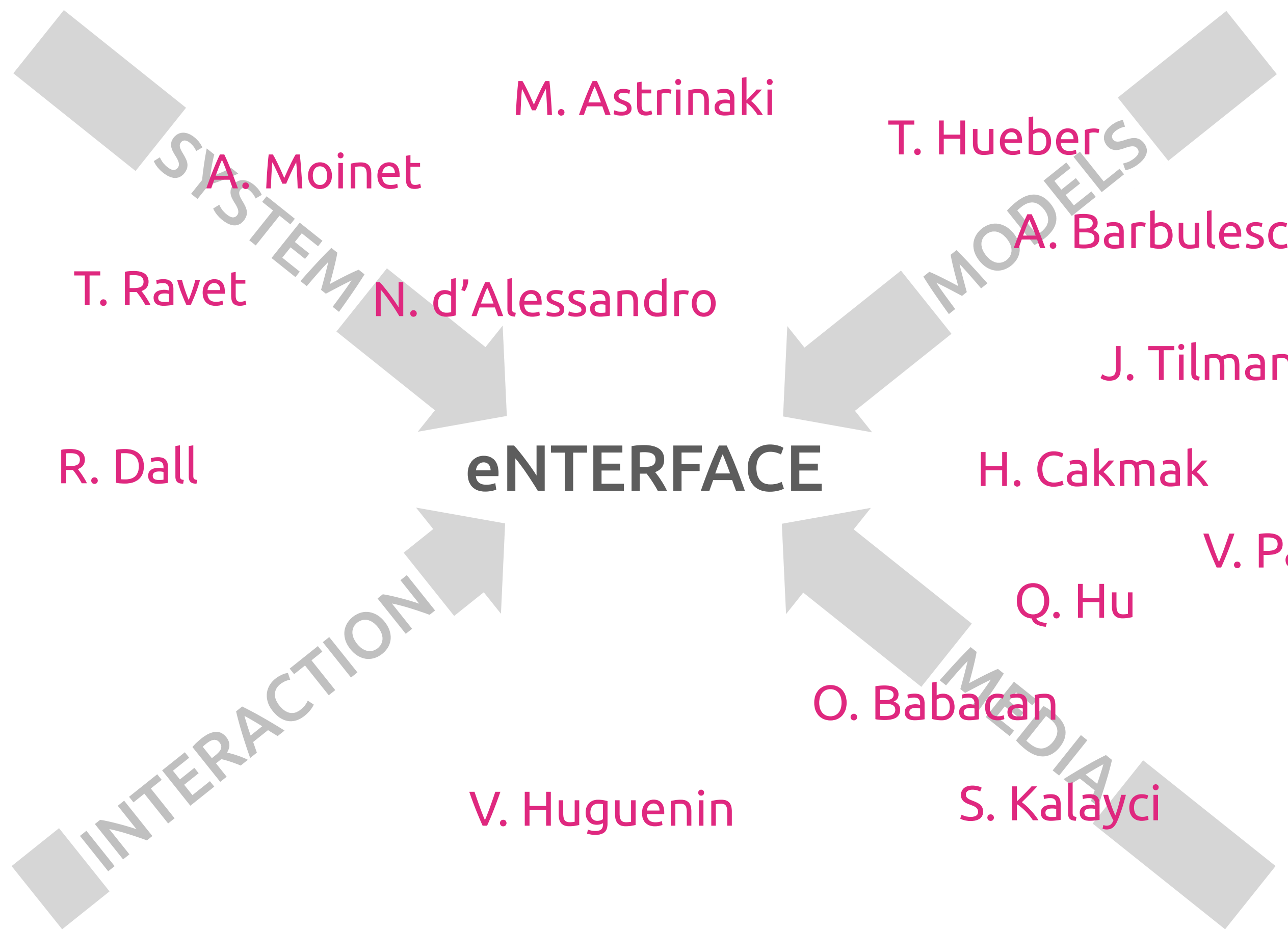
eINTERFACE

SYSTEM

MODELS

MEDIA

INTERACTION



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INTERACTION

SYSTEM

MODELS

MEDIA

Obrigado!
Questions?