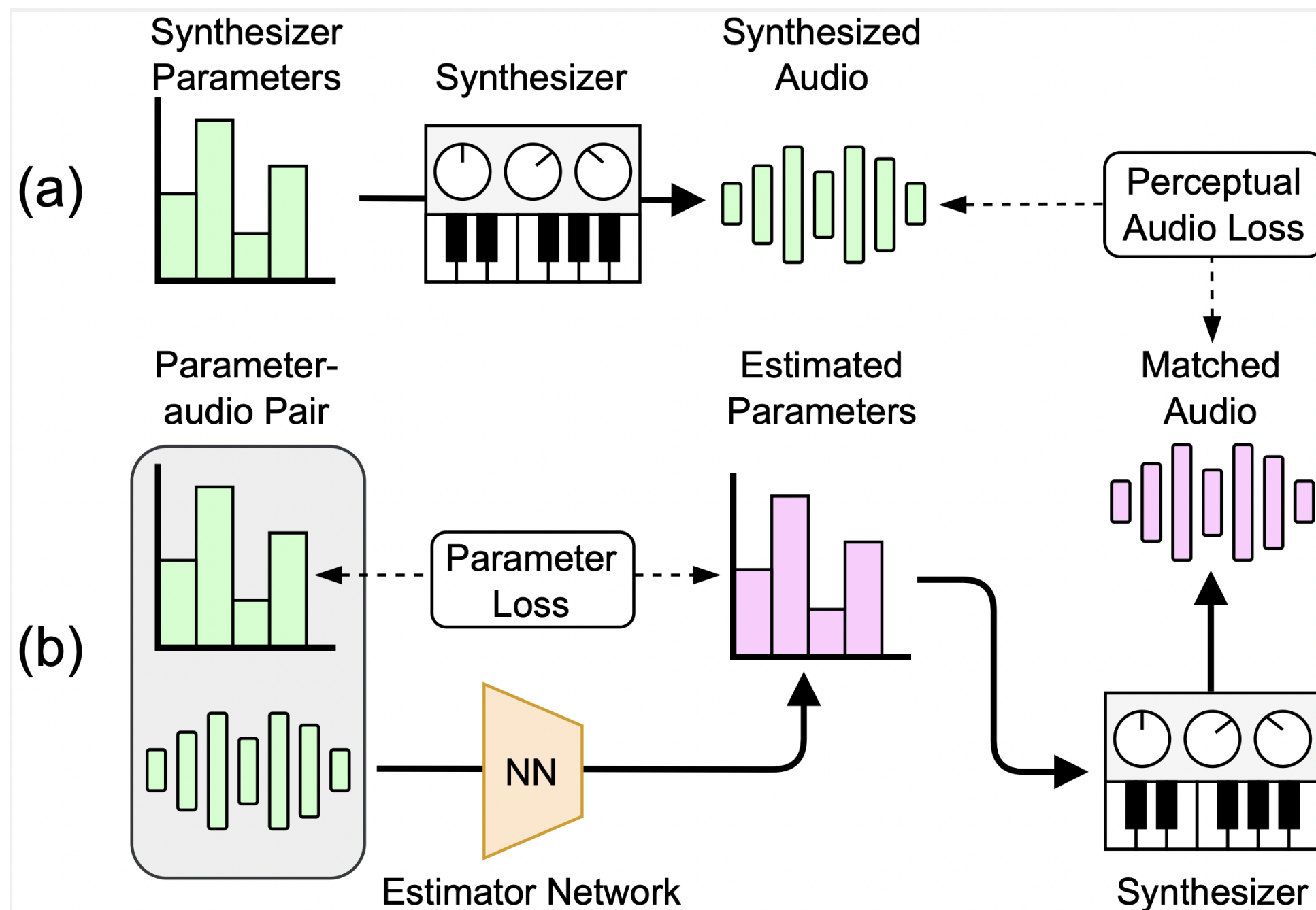


# Deep Learning for Time-varying Audio and Parameter Modulations

Christopher Mitcheltree

2022



## Finding

Time-varying audio effects and synthesizers can be modeled effectively end-to-end via gradient descent by first extracting parameter modulation signals.

## Question

Can a theoretical framework and differentiable loss functions be developed that improve the modeling of time-varying audio systems?