Heatmap of MSE using SGD (Ridge, λ =0.01) 0.016 0.0149 0.0156 0.0146 0.0158 300 -0.0149 0.0155 0.0159 0.0145 0.0158 280 0.10 0.0169 0.0157 0.0149 0.0156 0.0153 260 -0.015 0.0198 0.0187 240 0.0149 0.0159 0.0147 0.0153 0.0151 0.0205 0.0151 220 -0.08 0.0155 0.0148 0.015 0.0141 0.0192 200 -0.0152 0.0147 0.0165 0.017 0.0164 180 -0.0148 0.0193 0.0167 0.0256 160 -0.0152 0.06 0.0149 0.0159 0.0163 0.0187 0.0224 140 Mean 0.0185 0.0179 0.016 0.0151 0.0137 120 0.0157 0.0186 0.0185 0.025 0.016 100 0.040.0559 0.0153 0.0185 0.0215 0.0312 80 0.0356 0.0877 0.0344 0.0162 0.0235 60 0.0219 0.0376 0.0293 0.11 0.0175 40 0.02 0.0737 0.116 0.0283 0.115 0.102 20 -5 10 15 20 25

Mini batch size