train =

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 {0.`, 19.7`, 10.2`, 79.`, 42.`, 5.37`, 33.82`, 5.3`, 4.`, 8.2`, 7.5`},
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 {0.`, 23.2`, 12.8`, 92.`, 46.`, 4.71`, 27.04`, 5.9`, 4.6`, 8.8`, 7.3`},
 {0.`, 19.7`, 14.2`, 94.`, 69.`, 5.41`, 5.94`, 5.3`, 5.9`, 4.6`, 8.8`}}
```

Size in memory: 385.1 kB | + Show more | Show all | Iconize | Store full expression in notebook

target =

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Size in memory: 37 kB | + Show more | Show all | Iconize | Store full expression in notebook

test =

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Size in memory: 99.2 kB | + Show more | Show all | Iconize | Store full expression in notebook

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{5.2`}, {3.2`}, {5.9`}, {3.8`}, {4.6`}, {7.4`}, {7.6`}, {3.`}, {5.4`}, {5.7`}};
```

In[#]:=
```
TrainData = MapThread[#1 → #2 &, {train, target}, 1]
```

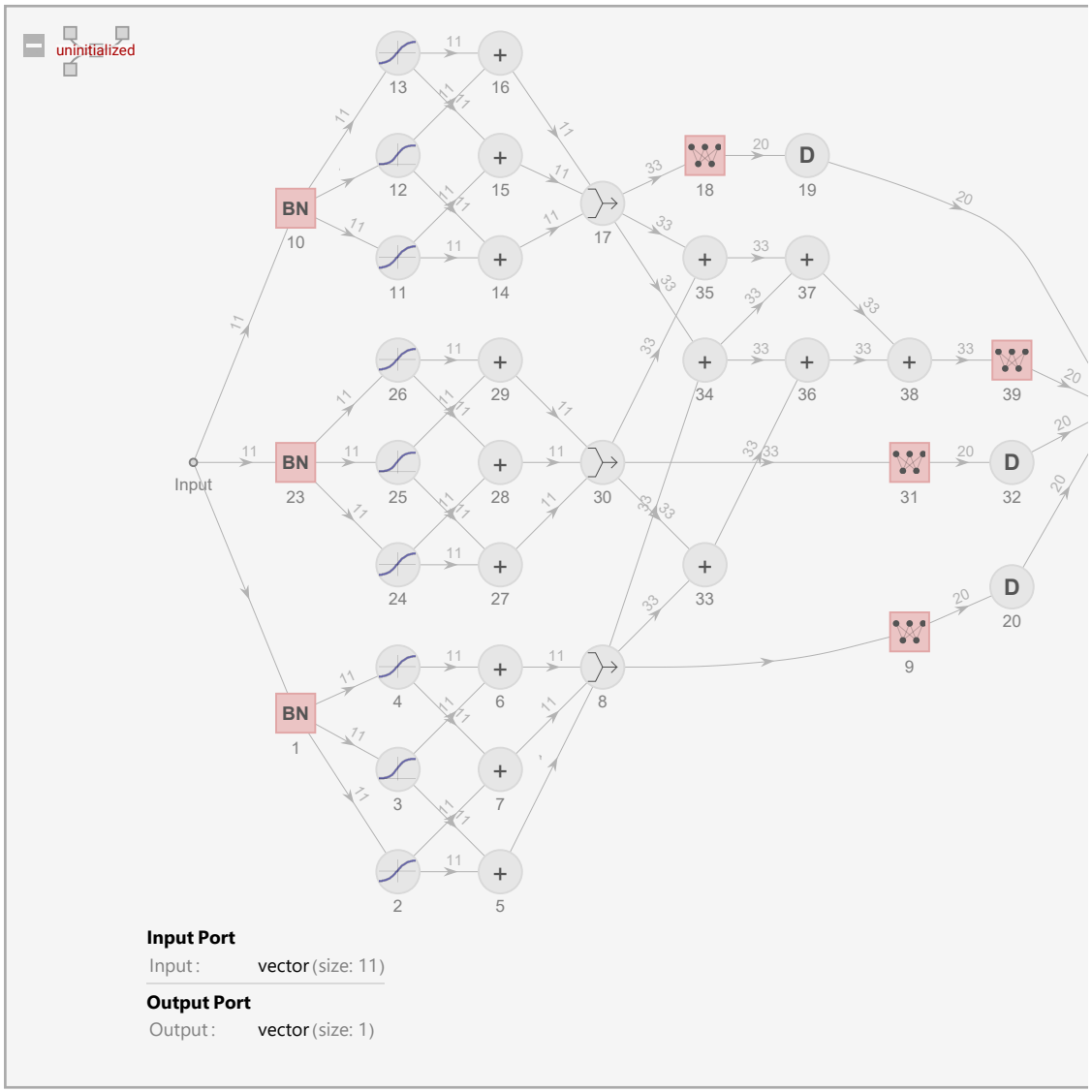
Out[#]=

```
{{0., 29., 9.7, 83., 25., 3.85, 33.96, 7.5, 5.4, 5.4, 5.4} → {5.4},
 {0., 31.7, 13.5, 83., 29., 4.38, 34.14, 7.5, 7.5, 5.4, 5.4} → {5.4},
 {0.2, 21.4, 15.8, 98., 56., 4.79, 20.11, 8.2, 7.5, 7.5, 5.4} → {5.4},
 {0.2, 18.4, 9.7, 82., 35., 7.03, 27.48, 4., 8.2, 7.5, 7.5} → {7.5},
 {0., 19.7, 10.2, 79., 42., 5.37, 33.82, 5.3, 4., 8.2, 7.5} → {7.5},
 {0., 23.6, 10.7, 91., 45., 4.48, 32.66, 5.7, 5.3, 4., 8.2} → {8.2},
 ··· 4362 ···, {0., 28.6, 8.9, 92., 19., 4.36, 30.29, 4.9, 5., 4.5, 2.8} → {2.8},
 {0., 33.7, 15.4, 97., 15., 9.04, 8.26, 7.3, 4.9, 5., 4.5} → {4.5},
 {2.8, 18.4, 7., 91., 35., 5.39, 23.42, 8.8, 7.3, 4.9, 5.} → {5.},
 {0.2, 22., 9.3, 83., 33., 4.95, 29.96, 4.6, 8.8, 7.3, 4.9} → {4.9},
 {0., 23.2, 12.8, 92., 46., 4.71, 27.04, 5.9, 4.6, 8.8, 7.3} → {7.3},
 {0., 19.7, 14.2, 94., 69., 5.41, 5.94, 5.3, 5.9, 4.6, 8.8} → {8.8}}
```

Full expression not available (original memory size: 2 MB)

In[•]:=
```
model1 = NetGraph[{BatchNormalizationLayer[], Tanh, LogisticSigmoid, Tanh,
    TotalLayer[], TotalLayer[], TotalLayer[], CatenateLayer[], LinearLayer[20],
    BatchNormalizationLayer[], Tanh, LogisticSigmoid, Tanh, TotalLayer[],
    TotalLayer[], TotalLayer[], CatenateLayer[], LinearLayer[20], DropoutLayer[],
    DropoutLayer[], TotalLayer[], LogisticSigmoid, BatchNormalizationLayer[], Tanh,
    LogisticSigmoid, Tanh, TotalLayer[], TotalLayer[], TotalLayer[], CatenateLayer[],
    LinearLayer[20], DropoutLayer[], TotalLayer[], TotalLayer[], TotalLayer[],
    TotalLayer[], TotalLayer[], TotalLayer[], LinearLayer[20], LinearLayer[1]},
   {1 → 2, 1 → 3, 1 → 4, 2 → 5, 3 → 5, 3 → 6, 4 → 6, 2 → 7, 4 → 7, 5 → 8, 6 → 8, 7 → 8, 8 → 9,
    10 → 11, 10 → 12, 10 → 13, 11 → 14, 12 → 14, 11 → 15, 13 → 15, 13 → 16, 12 → 16, 16 → 17,
    15 → 17, 14 → 17, 17 → 18, 18 → 19, 9 → 20, 20 → 21, 19 → 21, 21 → 22, 23 → 24, 23 → 25,
    23 → 26, 24 → 27, 25 → 27, 24 → 28, 25 → 29, 26 → 28, 26 → 29, 27 → 30, 28 → 30, 29 → 30,
    30 → 31, 31 → 32, 32 → 21, 30 → 33, 8 → 33, 8 → 34, 17 → 34, 30 → 35, 17 → 35, 33 → 36,
    34 → 36, 34 → 37, 35 → 37, 37 → 38, 36 → 38, 38 → 39, 39 → 21, 22 → 40}, "Input" → 11]
```

Out[•]=



In[•]:=
```
model2 = NetChain[{BatchNormalizationLayer[], LinearLayer[3], Tanh, LinearLayer[2],
    LinearLayer[2], BatchNormalizationLayer[], LinearLayer[1]}, "Input" → 11]
```

Out[•]=

NetChain[uninitialized

	Input	vector (size: 11)
1	BatchNormalizationLayer	vector (size: 11)
2	LinearLayer	vector (size: 3)
3	Tanh	vector (size: 3)
4	LinearLayer	vector (size: 2)
5	LinearLayer	vector (size: 2)
6	BatchNormalizationLayer	vector (size: 2)
7	LinearLayer	vector (size: 1)
	Output	vector (size: 1)

]

In[•]:=
```
Net = NetTrain[model2, TrainData, LearningRate → 0.07,
   TargetDevice → "CPU", WorkingPrecision → "Real32", BatchSize → 4]
```

Out[•]=

NetChain[Input port: vector (size: 11)
Output port: vector (size: 1)]

In[•]:=
```
predict = Net[test]
```

Out[•]=

```
{{5.14462}, {4.7431}, {2.6096}, {5.79065}, {4.54084}, {4.94443}, {2.47521}, {1.99752},
 {3.47233}, {5.27707}, {5.47327}, {5.97551}, {5.97528}, {7.63166}, {4.60888}, {6.32486},
 {4.27222}, {4.94483}, {4.27226}, {4.87791}, {5.21106}, {4.60886}, {5.47321},
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 {3.27461}, {2.33945}, {3.87064}, {4.67588}, {3.34025}, {3.73727}, {5.01172},
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{5.14478}, {3.73734}, {4.2721}, {6.09459}, {6.21128}, {3.2082}, {4.81027}, {5.01168}}
```

In[•]:=
```
RootMeanSquare[predict - target2]
```

Out[•]=
```
{0.709652}
```

In[•]:=
```
Correlation[predict, target2]
```

Out[•]=
```
{{0.999371}}
```

train1 =

```
{{{0.`}, {29.`}, {9.7`}, {83.`}, {25.`}, {3.85`}, {33.96`}, {7.5`}, {5.4`}, {5.4`}, {5.4`}},
 {{0.`}, {31.7`}, {13.5`}, {83.`}, {29.`}, {4.38`}, {34.14`}, {7.5`}, {7.5`}, {5.4`}, {5.4`}},
 {{0.2`}, {21.4`}, {15.8`}, {98.`}, {56.`}, {4.79`}, {20.11`}, {8.2`}, {7.5`}, {7.5`}, {5.4`}},
 {{0.2`}, {18.4`}, {9.7`}, {82.`}, {35.`}, {7.03`}, {27.48`}, {4.`}, {8.2`}, {7.5`}, {7.5`}},
 {{0.`}, {19.7`}, {10.2`}, {79.`}, {42.`}, {5.37`}, {33.82`}, {5.3`}, {4.`}, {8.2`}, {7.5`}},
 ··· 4364 ···, {{0.`}, {33.7`}, {15.4`}, {97.`}, {15.`}, {9.04`}, {8.26`}, {7.3`}, {4.9`}, {5.`}, {4.5`}},
 {{2.8`}, {18.4`}, {7.`}, {91.`}, {35.`}, {5.39`}, {23.42`}, {8.8`}, {7.3`}, {4.9`}, {5.`}},
 {{0.2`}, {22.`}, {9.3`}, {83.`}, {33.`}, {4.95`}, {29.96`}, {4.6`}, {8.8`}, {7.3`}, {4.9`}},
 {{0.`}, {23.2`}, {12.8`}, {92.`}, {46.`}, {4.71`}, {27.04`}, {5.9`}, {4.6`}, {8.8`}, {7.3`}},
 {{0.`}, {19.7`}, {14.2`}, {94.`}, {69.`}, {5.41`}, {5.94`}, {5.3`}, {5.9`}, {4.6`}, {8.8`}}}
```

Size in memory: 385.1 kB | + Show more | Show all | Iconize | Store full expression in notebook

target1 =

```
{{5.4`}, {5.4`}, {5.4`}, {7.5`}, {7.5`}, {8.2`}, {4.`}, {5.3`}, {5.7`}, {5.8`}, {5.3`}, {5.4`},
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 {7.8`}, {6.`}, {9.6`}, {12.5`}, {15.5`}, {13.`}, {7.5`}, {7.4`}, {4.8`}, {6.2`}, {7.2`}, {8.2`},
 {7.5`}, {17.4`}, {4.1`}, {6.5`}, {5.4`}, {4.6`}, {5.9`}, {6.3`}, {6.7`}, {6.5`}, {6.4`}, {6.3`},
 {6.9`}, {7.2`}, {6.3`}, {4.7`}, {5.6`}, {10.1`}, {5.6`}, {4.1`}, {6.5`}, {10.3`}, {5.5`}, {3.2`},
 ··· 4254 ···, {4.5`}, {3.4`}, {1.7`}, {3.8`}, {5.5`}, {8.3`}, {3.`}, {4.1`}, {2.9`}, {4.1`}, {4.8`},
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```

Size in memory: 37 kB | + Show more | Show all | Iconize | Store full expression in notebook

In[14]:=
```
TrainData1 = MapThread[#1 → #2 &, {train1, target1}, 1]
```

Out[14]=

```
{{{0.}, {29.}, {9.7}, {83.}, {25.}, {3.85}, {33.96}, {7.5}, {5.4}, {5.4}, {5.4}} → {5.4},
 {{0.}, {31.7}, {13.5}, {83.}, {29.}, {4.38}, {34.14}, {7.5}, {7.5}, {5.4}, {5.4}} → {5.4},
 {{0.2}, {21.4}, {15.8}, {98.}, {56.}, {4.79}, {20.11}, {8.2}, {7.5}, {7.5}, {5.4}} → {5.4},
 {{0.2}, {18.4}, {9.7}, {82.}, {35.}, {7.03}, {27.48}, {4.}, {8.2}, {7.5}, {7.5}} → {7.5},
 {{0.}, {19.7}, {10.2}, {79.}, {42.}, {5.37}, {33.82}, {5.3}, {4.}, {8.2}, {7.5}} → {7.5},
 ··· 4365 ···, {{2.8}, {18.4}, {7.}, {91.}, {35.}, {5.39}, {23.42}, {8.8}, {7.3}, {4.9}, {5.}} → {5.},
 {{0.2}, {22.}, {9.3}, {83.}, {33.}, {4.95}, {29.96}, {4.6}, {8.8}, {7.3}, {4.9}} → {4.9},
 {{0.}, {23.2}, {12.8}, {92.}, {46.}, {4.71}, {27.04}, {5.9}, {4.6}, {8.8}, {7.3}} → {7.3},
 {{0.}, {19.7}, {14.2}, {94.}, {69.}, {5.41}, {5.94}, {5.3}, {5.9}, {4.6}, {8.8}} → {8.8}}
```

Size in memory: 2.1 MB | + Show more | Show all | Iconize | Store full expression in notebook

tes =

```
{{{0.`}, {30.1`}, {13.6`}, {96.`}, {29.`}, {3.96`}, {28.53`}, {6.9`}, {2.1`}, {5.3`}, {5.9`}},
 {{0.`}, {27.7`}, {15.6`}, {94.`}, {37.`}, {5.15`}, {13.49`}, {5.`}, {6.9`}, {2.1`}, {5.3`}},
 {{8.6`}, {28.1`}, {16.8`}, {98.`}, {38.`}, {5.05`}, {20.34`}, {5.6`}, {5.`}, {6.9`}, {2.1`}},
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 {{20.6`}, {17.4`}, {14.5`}, {100.`}, {82.`}, {7.14`}, {3.24`}, {1.2`}, {1.9`}, {5.6`}, {5.`}},
 ··· 1115 ···, {{4.4`}, {23.3`}, {14.3`}, {91.`}, {36.`}, {6.11`}, {22.`}, {5.4`}, {3.`}, {7.6`}, {7.4`}},
 {{0.2`}, {24.7`}, {9.1`}, {86.`}, {40.`}, {5.16`}, {26.86`}, {5.7`}, {5.4`}, {3.`}, {7.6`}},
 {{0.`}, {25.9`}, {12.4`}, {90.`}, {45.`}, {3.08`}, {27.2`}, {5.3`}, {5.7`}, {5.4`}, {3.`}},
 {{0.`}, {30.3`}, {13.9`}, {97.`}, {39.`}, {4.37`}, {28.06`}, {6.5`}, {5.3`}, {5.7`}, {5.4`}},
 {{0.`}, {25.8`}, {17.4`}, {86.`}, {50.`}, {4.9`}, {28.12`}, {5.8`}, {6.5`}, {5.3`}, {5.7`}}}
```

Size in memory: 99.2 kB | + Show more | Show all | Iconize | Store full expression in notebook

target3 = {{5.9`}, {5.3`}, {2.1`}, {6.9`}, {5.`}, {5.6`}, {1.9`}, {1.2`}, {3.4`}, {6.1`},
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```

In[•]:=
```
net = NetChain[
  {LongShortTermMemoryLayer[2], ConvolutionLayer[7, 1], LongShortTermMemoryLayer[2],
   Ramp, LinearLayer[3], LinearLayer[1]}, "Input" → {11, 1}, "Output" → 1]
```

Out[•]=

NetChain[uninitialized

	Input	matrix (size: 11×1)
1	LongShortTermMemoryLayer	matrix (size: 11×2)
2	ConvolutionLayer	matrix (size: 7×2)
3	LongShortTermMemoryLayer	matrix (size: 7×2)
4	Ramp	matrix (size: 7×2)
5	LinearLayer	vector (size: 3)
6	LinearLayer	vector (size: 1)
	Output	vector (size: 1)

]

In[•]:=
```
trained = NetTrain[net, TrainData1, BatchSize → 10]
```

Out[•]=

NetChain

	Input	matrix (size: 11×1)
1	LongShortTermMemoryLayer	matrix (size: 11×2)
2	ConvolutionLayer	matrix (size: 7×2)
3	LongShortTermMemoryLayer	matrix (size: 7×2)
4	Ramp	matrix (size: 7×2)
5	LinearLayer	vector (size: 3)
6	LinearLayer	vector (size: 1)
	Output	vector (size: 1)

In[•]:=
```
ptest = trained[tes]
```

Out[•]=

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    7.624183654785156`, 3.0287246704101562`, 5.381464004516602`, 5.702768802642822`};
```
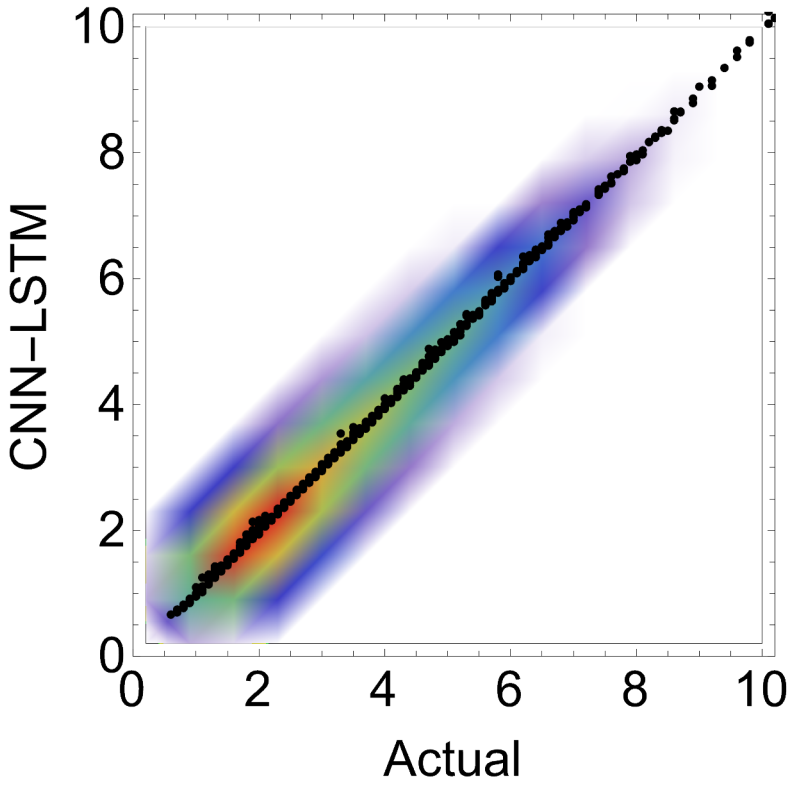
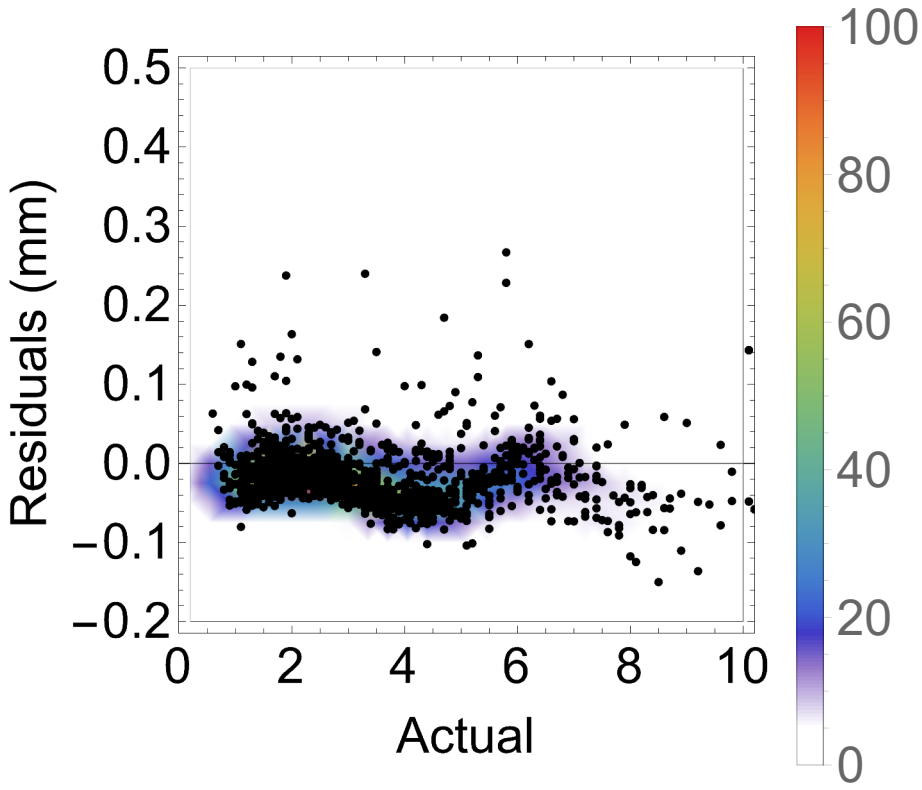

In[23]:=
```
diff2 = Transpose[{targ, pred - targ}];
```

In[24]:=
```
pairs2 = Transpose[{targ, pred}];
```

In[38]:=
```
residual = SmoothDensityHistogram[diff2, FrameTicksStyle → Directive[Black, 26],
    ColorFunction → colorFunction, PlotRange → {{0.2, 10}, {-0.2, 0.5}},
    Epilog → {PointSize[Medium], Point[diff2], Line[{{0, 0}, {50, 0}}]},
    ImageSize → 400, PlotLegends →
     BarLegend[{Automatic, {0, 100}}, LegendMarkerSize → 420, LabelStyle → {FontSize → 26}],
    FrameLabel → {Style["Actual", 26, Black], Style["Residuals (mm) ", 26, Black]}];
scatter = SmoothDensityHistogram[pairs2,
    FrameLabel → {Style["Actual", 26, Black], Style["CNN-LSTM", 26, Black]},
    FrameTicksStyle → Directive[Black, 26], ColorFunction → colorFunction,
    PlotRange → {{0.2, 10}, {0.2, 10}}, Epilog →
     {PointSize[Medium], Point[pairs2], Line[{{0.2, 10}, {0.2, 10}}]}, ImageSize → 410];
Row[{scatter, residual}]
```

Out[40]=


CNN–LSTM
Actual
0
2
4
6
8
10


Residuals (mm)
Actual
0.5
0.4
0.3
0.2
0.1
0.0
−0.1
−0.2
0
2
4
6
8
10
100
80
60
40
20
0

In[•]:=
```
Show[ListPlot[targ, PlotStyle → {Red, PointSize[Medium]}],
 ListLinePlot[pred, PlotStyle → {Green}], LabelStyle → {24, GrayLevel[0]}]
```

Out[•]=