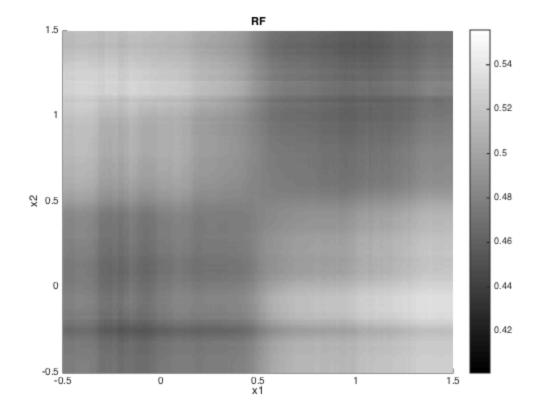
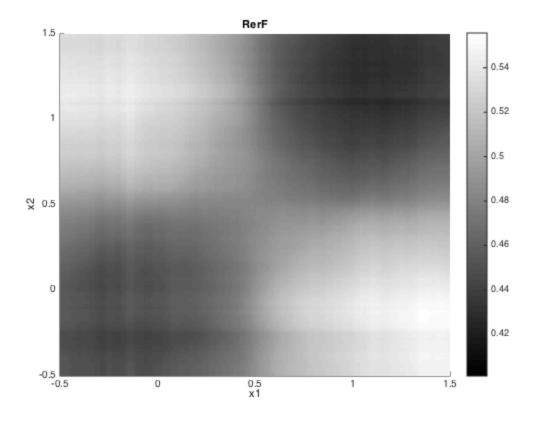
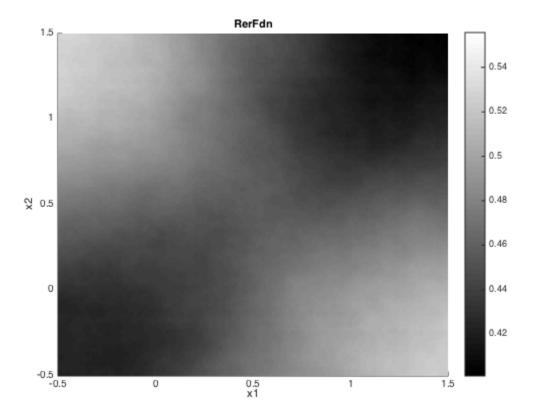
## Plot posterior heat maps

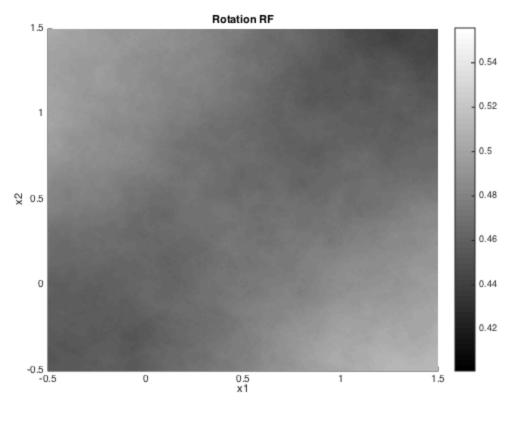
```
clear
close all
clc
fpath = mfilename('fullpath');
rerfPath = fpath(1:strfind(fpath, 'RandomerForest')-1);
runSims = false;
if runSims
    run_sparse_parity_posteriors
else
    load Sparse_parity_posteriors.mat
end
figure('visible','off')
p1 = posterior_map(Xpost,Ypost,mean(rf.posteriors,3));
xlabel('x1')
ylabel('x2')
t(1) = title('RF');
ax_old(1) = gca;
c(1) = findobj(gcf, 'Type', 'ColorBar');
figure('visible','off')
p2 = posterior_map(Xpost,Ypost,mean(rerf.posteriors,3));
xlabel('x1')
ylabel('x2')
t(2) = title('RerF');
ax_old(2) = gca;
c(2) = findobj(gcf, 'Type', 'ColorBar');
figure('visible','off')
p3 = posterior_map(Xpost, Ypost, mean(rerfdn.posteriors, 3));
xlabel('x1')
ylabel('x2')
t(3) = title('RerFdn');
ax old(3) = qca;
c(3) = findobj(gcf, 'Type', 'ColorBar');
figure('visible','off')
p4 = posterior_map(Xpost,Ypost,mean(rf_rot.posteriors,3));
xlabel('x1')
ylabel('x2')
t(4) = title('Rotation RF');
ax_old(4) = gca;
c(4) = findobj(gcf,'Type','ColorBar');
cmin = min([p1.CData(:);p2.CData(:);p3.CData(:);p4.CData(:)]);
cmax = max([p1.CData(:);p2.CData(:);p3.CData(:);p4.CData(:)]);
```

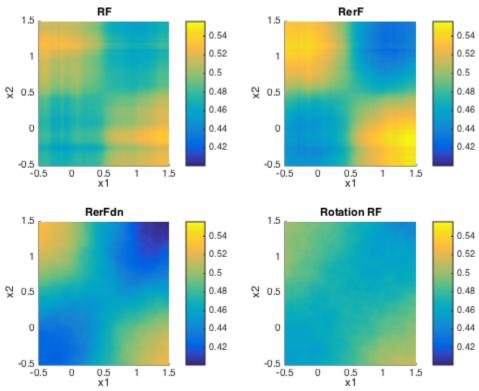
```
for i = 1:4
    figure(i)
   caxis([cmin cmax])
    save_fig(gcf,[rerfPath 'RandomerForest/Figures/Sparse_parity_posteriors_' strr
end
cmaps = {'parula' 'jet' 'hot' 'cool' 'spring' 'summer' 'autumn' 'winter'};
for i = 1:length(cmaps)
    fig = figure;
   for j = 1:4
        figure(fig)
        ax = subplot(2,2,j);
        newHandle = copyobj(allchild(ax_old(j)),ax);
        ax.Title.String = ax_old(j).Title.String;
        ax.XLabel.String = ax_old(j).XLabel.String;
        ax.YLabel.String = ax_old(j).YLabel.String;
        ax.XLim = ax_old(j).XLim;
        ax.YLim = ax old(j).YLim;
        colorbar
        caxis(c(j).Limits)
    end
    colormap(fig,cmaps{i})
end
```

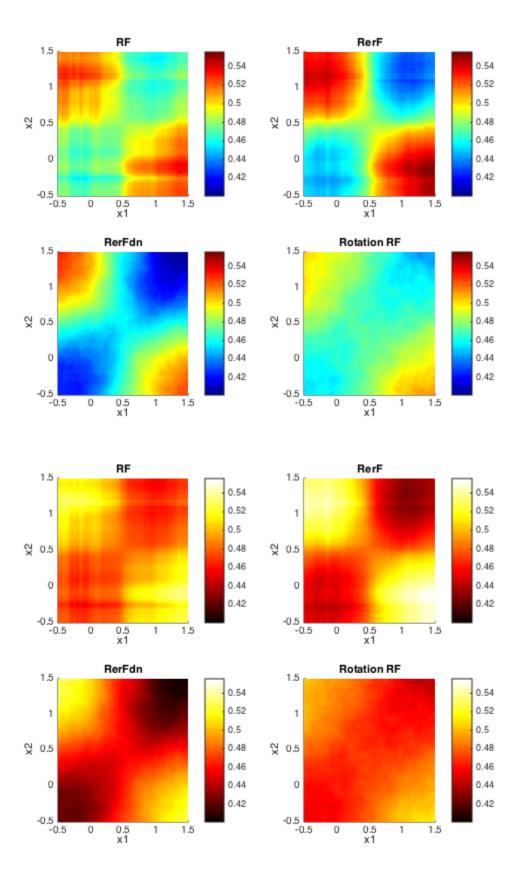


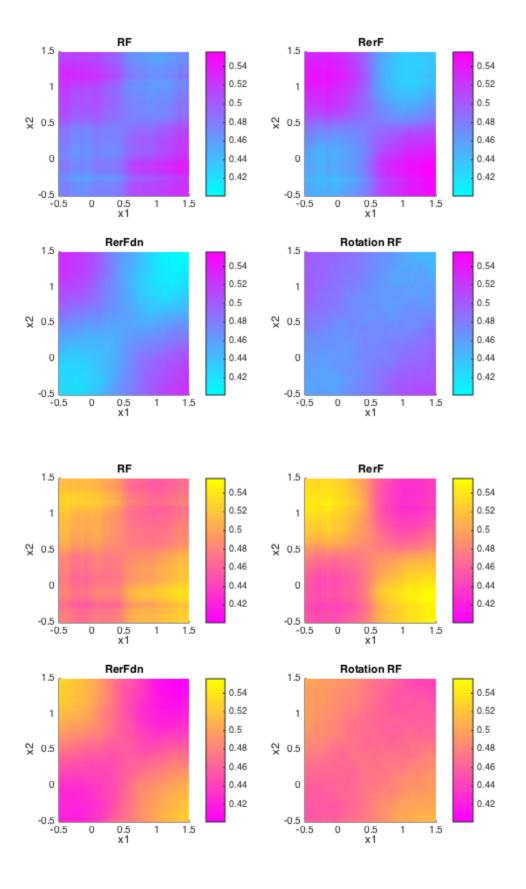


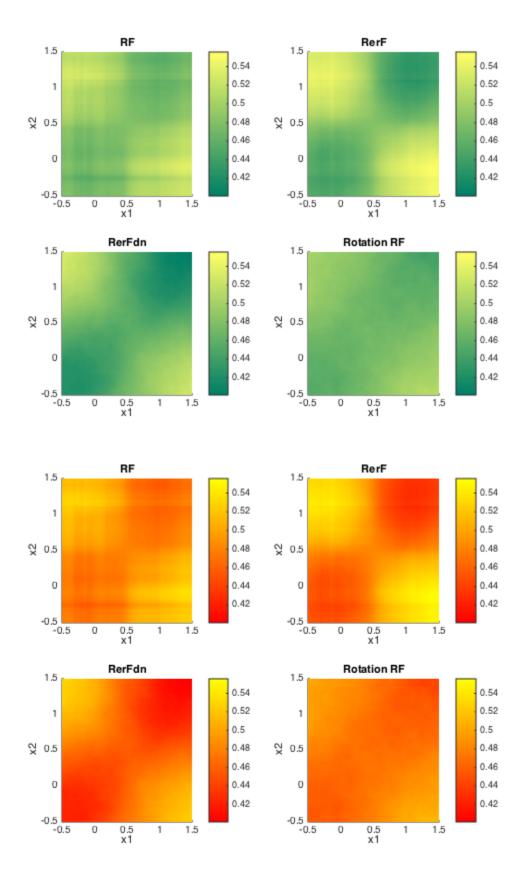


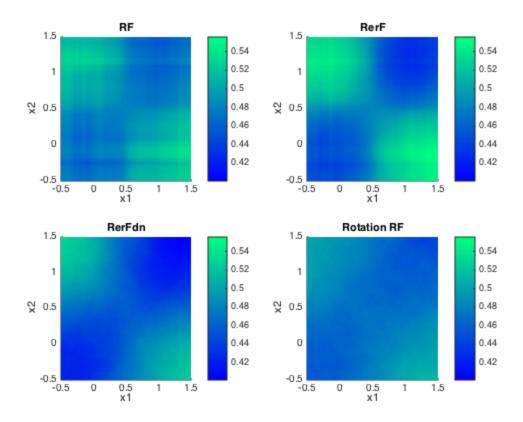












Published with MATLAB® R2014b