```matlab
%CAO Chunyang
%55668390
m=1251;
n=1001;
B=zeros(n,m);
x=linspace(-1.5,1,m);
y=linspace(-1,1,n);
for j=1:m
 for p=1:n
     z(1)=x(j)+1i*y(p);
     k=1;
     while (abs(z(k))<2 && k<201)
         k=k+1;
         z(k)=(z(k-1)^2)-0.7-0.4i;
     end
     B(p,j)=(abs(z(k)))/(k.^0.5);
 end
end
pcolor(x,y,B)
colorbar
shading flat
title('CAO Chunyang, 55668390')
```
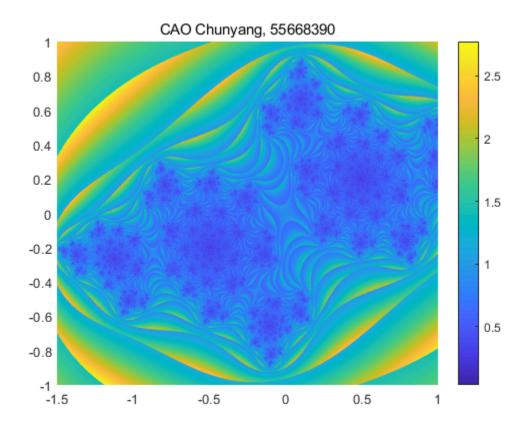

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