
Subject: Fitting a function with multiple independent variables

Posted by [Sean Davis](#) on Wed, 20 Apr 2005 00:21:38 GMT

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Hello all,

I am currently trying to fit a function with multiple independent variables.
I have used IDL's REGRESS routine, which does a multiple linear regression,
such as fits to something like:

$$Y = 5 + 3*X1 - 4*X2$$

But what if I want one of my independent variables to vary non-linearly,
like

$$Y = 5 + 3*X1^2 - 4*X2$$

(I assume this is called non-linear regression?)

I've heard of Craig M.'s fitting library, so I suppose I should look there.
But for the record, are there any built-in programs in IDL to do this???

Thanks,
Sean
