

How do I fit a line through three points in space?

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Hi all!

How do I go about fitting a straight line (vector) through three points in space? Each of the three points is given by three coordinates (x,y,z) that are measured with some uncertainty. The textbooks I have all discuss using the method of least squares for fitting a straight line through a number of (x,y) points in a plane but I need a method that works in three dimensions.

Although this is probably a trivial problem for you mathematicians I would appreciate any help you can offer.

/Red B.