1. Equation e = new Equation(params);
2. double initialData[][] = (y, x1, x2, … , xn);
3. double initialBounds[][] = {{ymin, ymax}, {x1\_min, x1\_max}, {x2\_min, x2\_max}, {xn\_min, xn\_max} }
4. double convertedData[][] = convertData(initialData);
5. double convertedBounds[][] = convertBounds(initialBounds);
6. double fit1[] = getFit(convertedData, convertedBounds);
7. double sumSq1 = getSumSq(fit1, convertedData, convertedBounds);
8. Matrix J = constructJ(convertedData, convertedBounds);
9. Matrix Y = constructY(convertedData, convertedBounds);
10. Matrix b = calcB(J, Y);
11. double[] newParams = bToParams(b);
12. e.setParams(newParams);
13. fit2 = getFit(convertedData, convertedBounds);
14. sumSq2 = getSumSq(fit2, convertedData, convertedBounds);
15. if(!converged(sumSq1, sumSq2) { repeat 8 -> 15; }
16. Object[] error = calculateError(convertedData, convertedBounds);
17. double[] stdDev = (double[]) error[0];
18. Matrix covar = (Matrix) error[1];
19. Matrix corr = (Matrix) error[2];