Curve fitting is the process of constructing a curve, or mathematical function, that has the best fit to a series of data points, possibly subject to constraints.

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Curve fitting is closely related to Regression analysis. In fact it is the techniques of Regression Analysis that we use to find the 'best' fit curve for the given data points.

In statistics, regression analysis is a statistical process for estimating the relationships among variables. It includes many techniques for modelling and analysing several variables, when the focus is on the relationship between a dependent variable and one or more independent variables (or 'predictors').

This kind of analysis of data is also called regression analysis, since one of the early applications of least squares was to genetics, to study the well-known phenomenon that children of unusually tall or unusually short parents tend to be more normal in height than their parents. In more technical language, the children's height tends to \regress toward the mean."

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I'm a physicist specializing in computational material science with a PhD in Physics from Friedrich-Schiller University Jena, Germany. I write efficient codes for simulating light-matter interactions at atomic scales. I like to develop Physics, DFT, and Machine Learning related apps and software from time to time. Can code in most of the popular languages. I like to share my knowledge in Physics and applications using this Blog and a YouTube channel.

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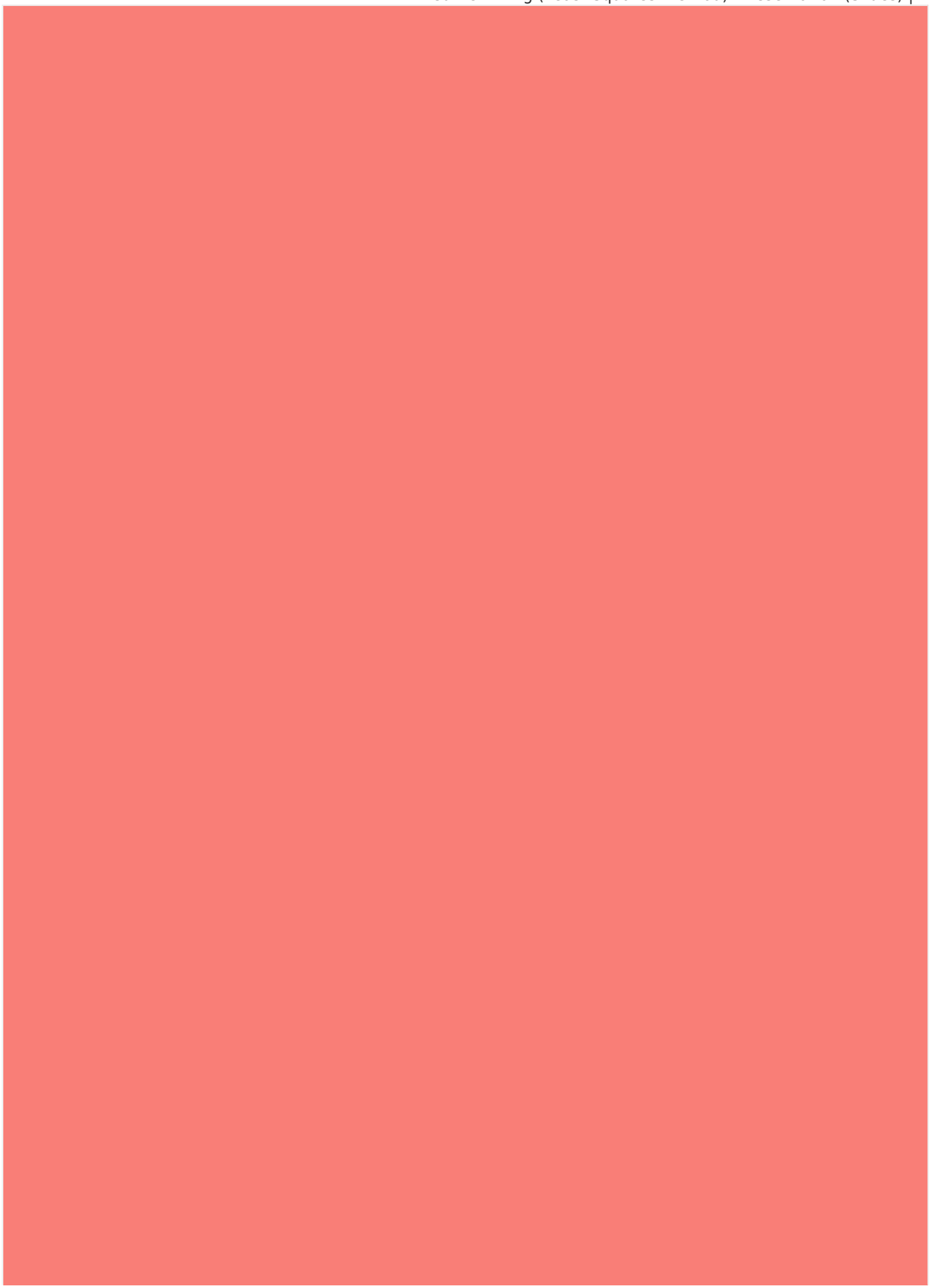

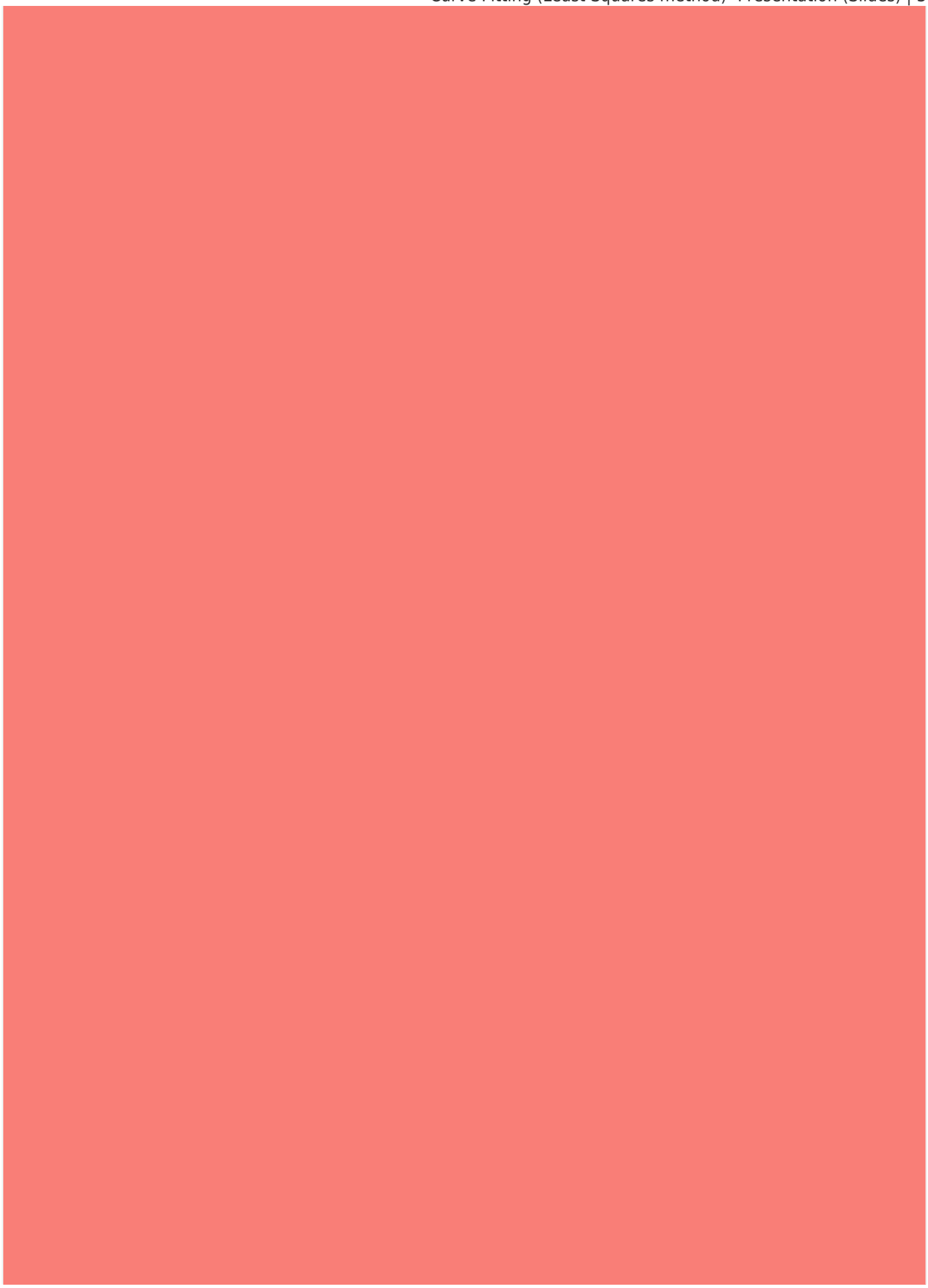

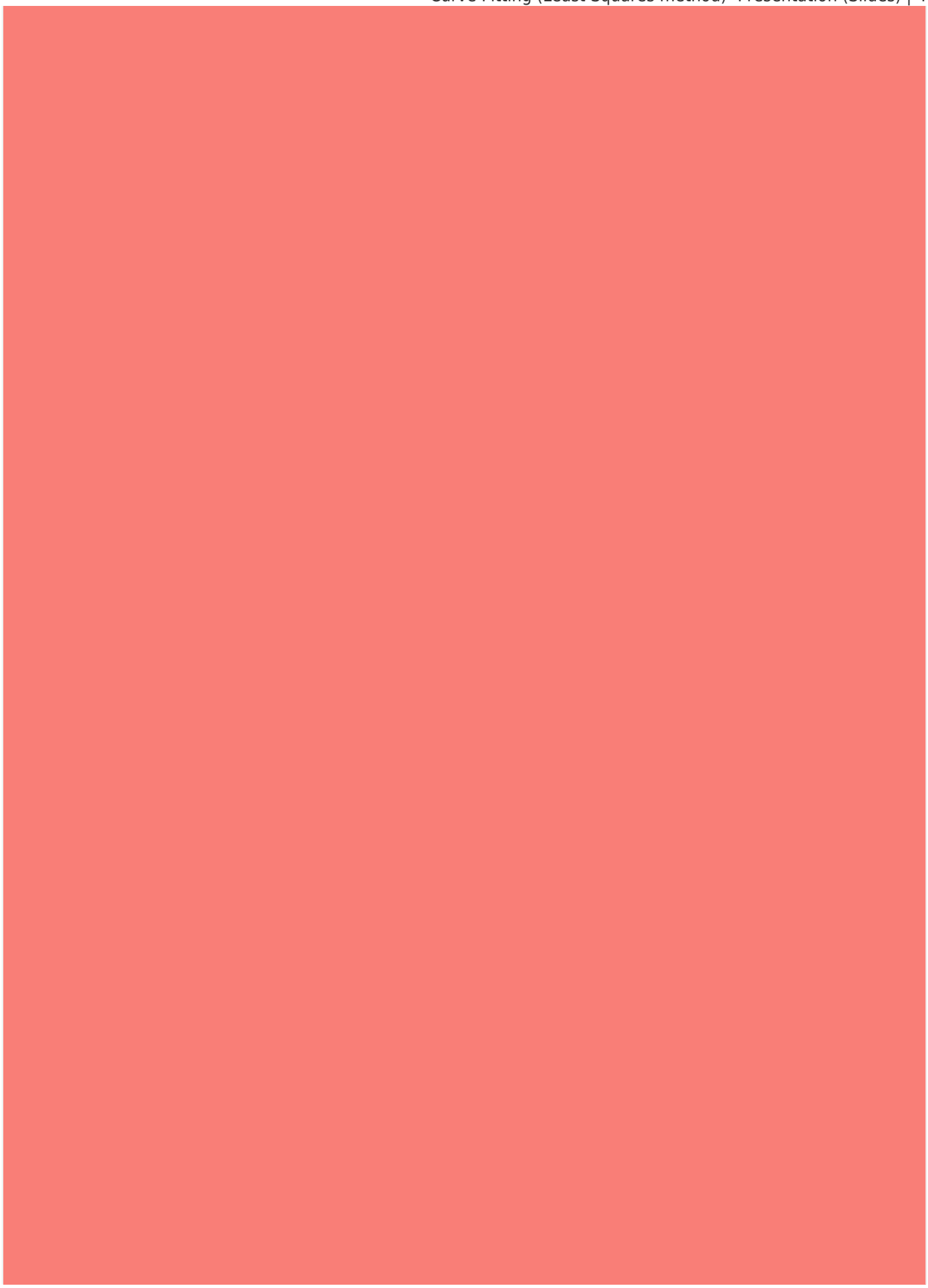

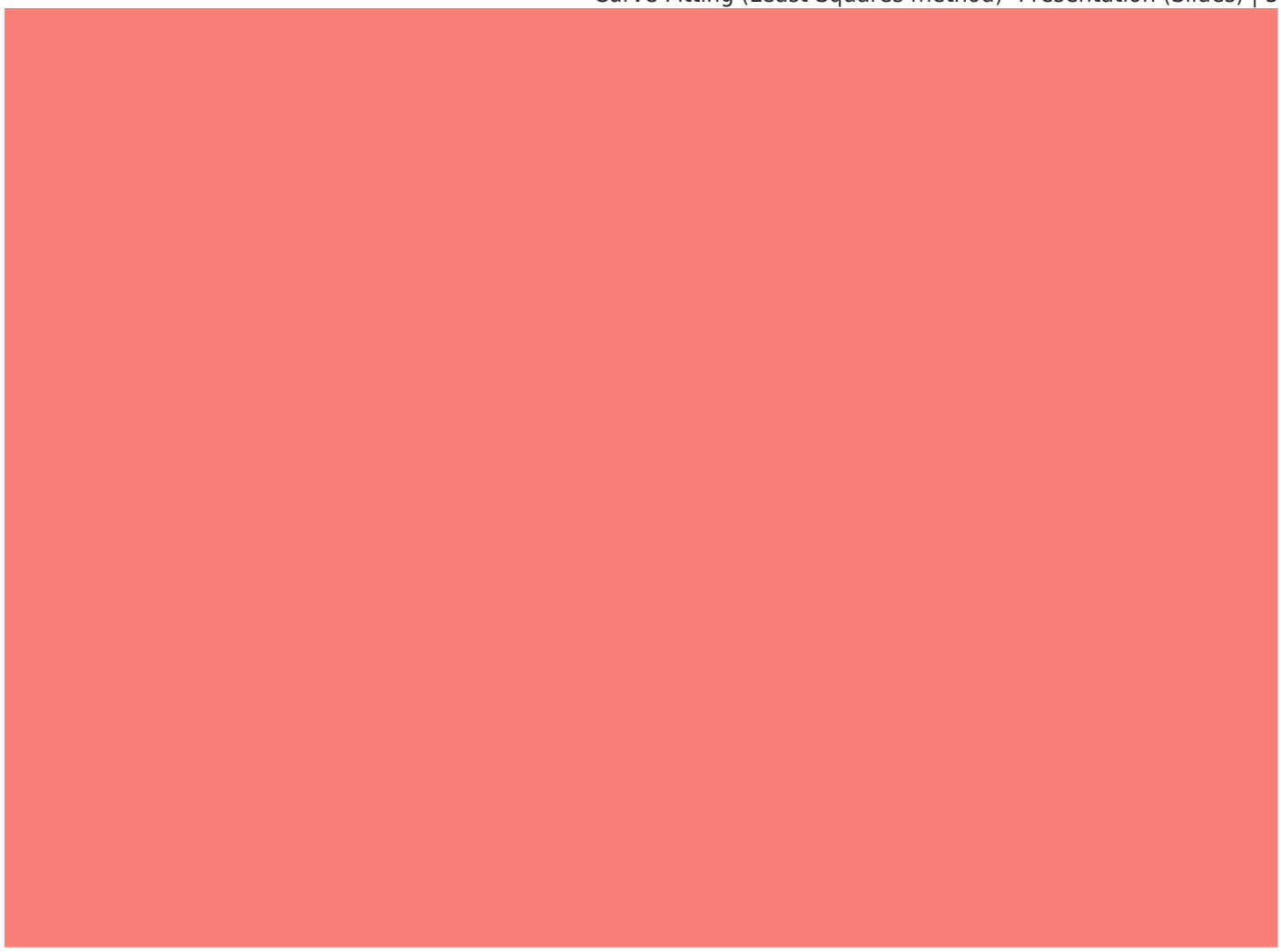

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