

Curve-fitting review

University of Colorado Boulder

MCDB/BCHM 4312/5312
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Syntax

```
fitobj = fit(x, y, 'modelname')
```

x and y must be **column vectors** and the **same length**

Get the model name from the documentation

The transpose operator (')

Converts row vectors into column vectors (and vice versa)

Example (data from homework 10)

- Given data of cell length over time, compute the growth rate of the cell B

$$y = A \exp(Bx)$$

- Effective pixel size = 0.065 $\mu\text{m}/\text{px}$
- Acquisition frame rate = 30 min/frame