# BGSUBFIT

BGSUBFit is code to do real background substraction of single molecule imaging movies so that the molecules can be fit and their intensity accurately measured even in the presence of an arbitrarily complex fluorescent background.

## Installation

TODO: Describe the installation process

## Usage

See the Instruction Manual for details. Briefly, the function BGSUBFit is a wrapper for the other code to perform all of the steps in the correct order. Simply run BGSUBFit by specifcying the directory containing your .tif stack movies, specify the three required parameters, and any optional parameters, then run it and click to choose the movies you want to fit. Or run the various programs independently.

## Contributing

1. Please inform me before making any changes, then follow the directions below:

1. Fork it!

2. Create your feature branch: `git checkout -b my-new-feature`

3. Commit your changes: `git commit -am 'Add some feature'`

4. Push to the branch: `git push origin my-new-feature`

5. Submit a pull request :D

## History

Written & first uploaded by BPI on 6/12/16.

Last update

## Credits

All individual programs should have all their individual attributions still in place including authors.

This code is greatly indebted to David J Rowland (often referred to as DJR in the code), in addition to containing some functions written by him, I’ve borrowed a lot of code snippets from his programs.

The code not written by BPI:

TiffStack by DR Muir and BM Kampa.

saveastiff by YoonOh Tak

bpass by John C. Crocker and David G. Grier

MLEwG by KI Mortensen, LS Churchman, JA Spudich, H Flyvbjerg

gaussfit by David J Rowland

Track\_3D2 by David J Rowland and Yi Liao ?

## License

TODO: Write license