

# Michael M Fuller, Ph.D.

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## Summary

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Statistician, biologist, developer with 15 years experience in academia and the environmental studies industry. Highly versatile, articulate, and enthusiastic team player, dedicated to rigorous discovery of real patterns, and finding creative, practical solutions to difficult problems. Excellent writer, editor, and speaker, with professional presentation skills.

Github Profile: [github.com/impactanalysts](https://github.com/impactanalysts)

StackExchange Profile: [stackoverflow.com/users/1718938/prefectionist](https://stackoverflow.com/users/1718938/prefectionist)

Statistics Blog: [www.impactanalysts.com](http://www.impactanalysts.com)

## Key Skills and Attributes

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- Object-oriented software development
- Experimental design and analysis
- Test-driven development
- Successful small business owner
- Fast, independent learner
- Creative problem solver
- Strong leadership skills
- Interdisciplinary background

## Relevant Projects

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### **Forest growth in western US under climate change**

12Gb public dataset: CART, regression, raster processing, stochastic numerical models.  
My solution yielded an improvement of 2 to 3 orders of magnitude in parameter accuracy.

### **Oil sands air pollution and forest health**

1Gb private data: 5 years of forest health indicators from experimental plots.  
My PCA, GLM results used by gov agency to set regulatory standards for atmospher N in Alberta.

### **C++ Classes for Individual Based Tree Harvest Simulations**

3000+ lines of code: provides a harvest module for the Open Source SORTIE-ND project.

### **Computational Science for Natural Resource Managers**

Planned and directed 2, 4-day NSF funded workshops at Univ. Tennessee; 40 attendees each.  
Led a team of 12 faculty members and students, representing 4 academic departments.

## Education

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Ph.D., Biology, University of New Mexico

## Personal Activities

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- Participated in Olympic selection races in road cycling (as category 2 licensed competitor).
- Director, Albuquerque KTC Tibetan Buddhist Center.
- Travel: 11 countries, 3 continents: skydiving in Norway, white water rafting above the arctic circle.