

**What has been done to your f(c)MRI data without your knowledge and what are the implications.**

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**Tuesday, November 4, 2014**

3:00-4:00pm, New PI 6<sup>th</sup> Floor Multipurpose Room (6602)  
Light refreshments provided

**Abstract**

The purpose of this talk is to inform Neuroscientists and Statisticians where their original data comes from, what processes have been done to their original data, and what the properties of the resultant data are that we are to make scientific statements from. In this talk I will begin with the process of obtaining the MRI machine's original complex-valued  $k$ -space measurements. I will then describe the basics of image reconstruction and image processing. Finally, I will present the effects of image reconstruction and image processing on experimental f(c)MRI data. These effects are a change in the image mean and variance in addition to an induced correlation between voxels.

**Biography**

**Professor of Computational Sciences**

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Applications are now being accepted for:

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**Adjunct Professor in Electrical Engineering**

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<sup>1</sup> The PI Biostatistics Seminar Series is held on Tuesdays at New York State Psychiatric Institute. If you are interested in receiving regular announcements for our seminars in the future, or if you need further information, please contact Jina James ([jamesji@nyspi.columbia.edu](mailto:jamesji@nyspi.columbia.edu), (646)774-7929).

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