

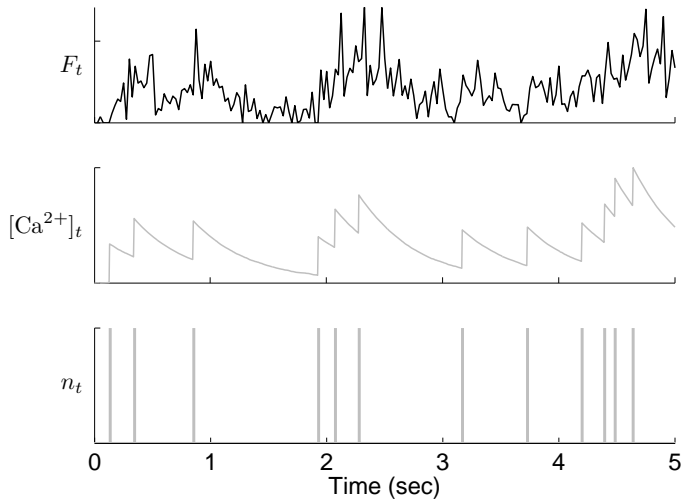
# Model-based optimal inference of spike times given noisy and intermittent calcium-fluorescence imaging

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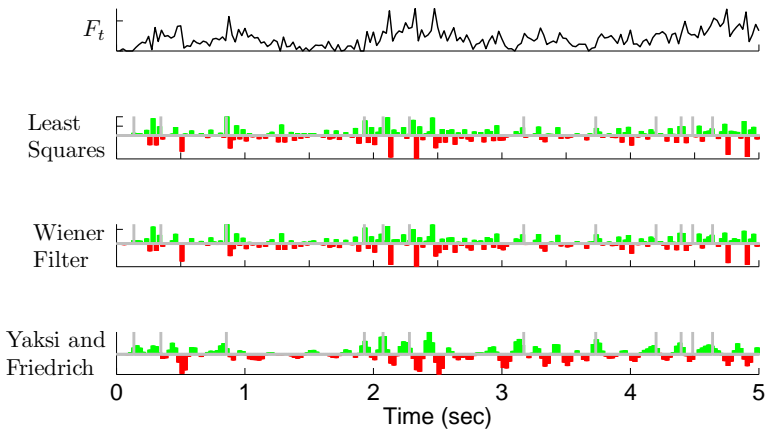
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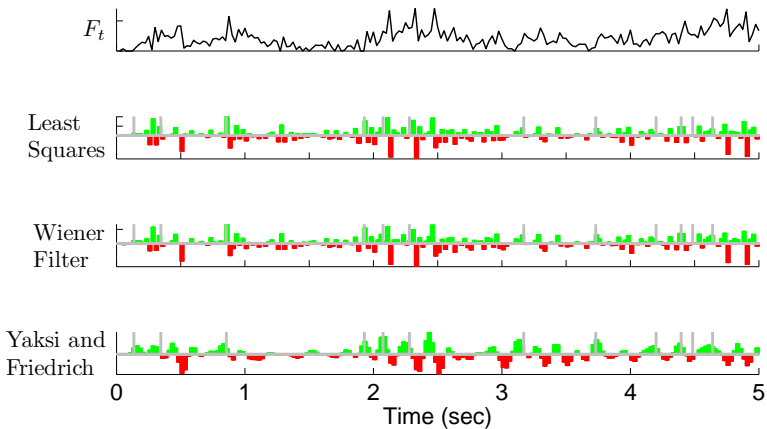
<sup>2</sup>Department of Statistics, Columbia University

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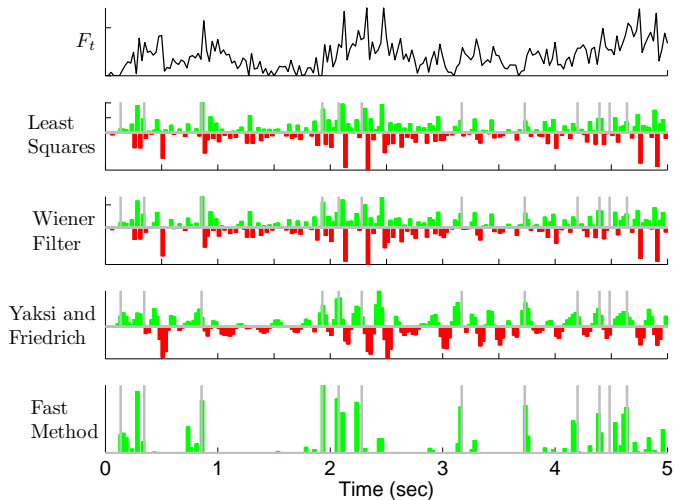


$$F_t = Ae^{-t/\tau} * n_t + \varepsilon_t$$

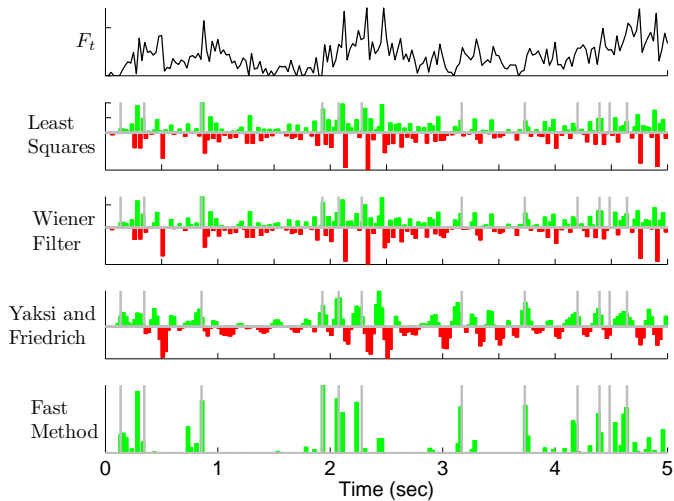




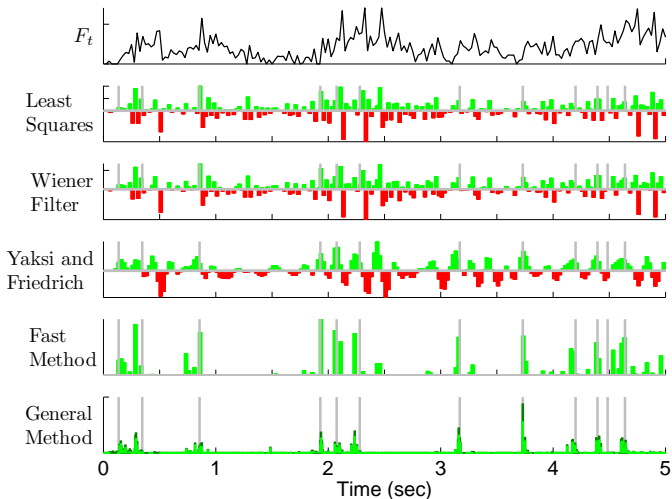
- ▶ spike trains are non-negative
- ▶ stimulus dependence
- ▶ observations are intermittent



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