- effect of heterogeneity on synchrony (rotation project with Bard) [Zhou et al., 2013]
- synchrony and oscillation [Zhou et al., 2015]
- FDR [Scott et al., 2015]
- CNMF-E [Zhou et al., 2016].
- Fast algorithm for spike inference [Friedrich et al., 2016]. We submitted it to PLOS Comp. Bio and it's under review.
- Co-authored papers related to the application of CNMF-E [Klaus et al., 2017, Jimenez et al., 2017, Rodriguez-Romaguera et al., 2017, Sun et al., 2017, Yu et al., 2017]. All of them are close to submission.

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