# Statement of Authorship for joint/multi-authored papers for PGR thesis
To appear at the end of each thesis chapter submitted as an article/paper

The statement shall describe the candidate's and co-authors' independent research contributions in the thesis publications. For each publication there should exist a complete statement that is to be filled out and signed by the candidate and supervisor **(only required where there isn't already a statement of contribution within the paper itself).**

| | |
|---|---|
| Title of Paper | Distributed Bayesian Learning with Stochastic Natural Gradient Expectation Propagation and the Posterior Server |
| Publication Status | X Published       □Accepted for Publication <br><br> □Submitted for Publication      □Unpublished and unsubmitted work written in a manuscript style |
| Publication Details | Hasenclever, Leonard, Webb, Stefan, Lienart, Thibaut, Vollmer, Sebastian, L., Balaji, Blundell, Charles, Tom, and Teh, Yee Whye. Distributed Bayesian Learning with Stochastic Natural Gradient Expectation Propagation and the Posterior Server. *Journal of Machine Learning Research 18 (2017) 1-37.* |

## Student Confirmation

| | |
|---|---|
| Student Name: | Stefan Webb |
| Contribution to the Paper | Developed code framework for running experiments. Implemented non-Bayesian distributed baselines A-SGD and EASGD and compared SNEP to these, e.g. Figure 5. Solely responsible for conceiving and running the experiments on the deep model in 6.2.2 and writing this section. Some of the writing in 6.2.1. Evaluated a number of ideas for improvement of SNEP such as tying the parameters and other variants of the likelihood update. |

| Signature | | Date | 12/12/2018 |
|---|---|---|---|

## Supervisor Confirmation

By signing the Statement of Authorship, you are certifying that the candidate made a substantial contribution to the publication, and that the description described above is accurate.

| |
|---|
| Supervisor name and title: Prof Yee Whye Teh |
| Supervisor comments |

| Signature | | Date | |
|---|---|---|---|

This completed form should be included in the thesis, at the end of the relevant chapter.