

# Partial transfusion: on the expressive influence of trainable batch norm parameters for transfer learning

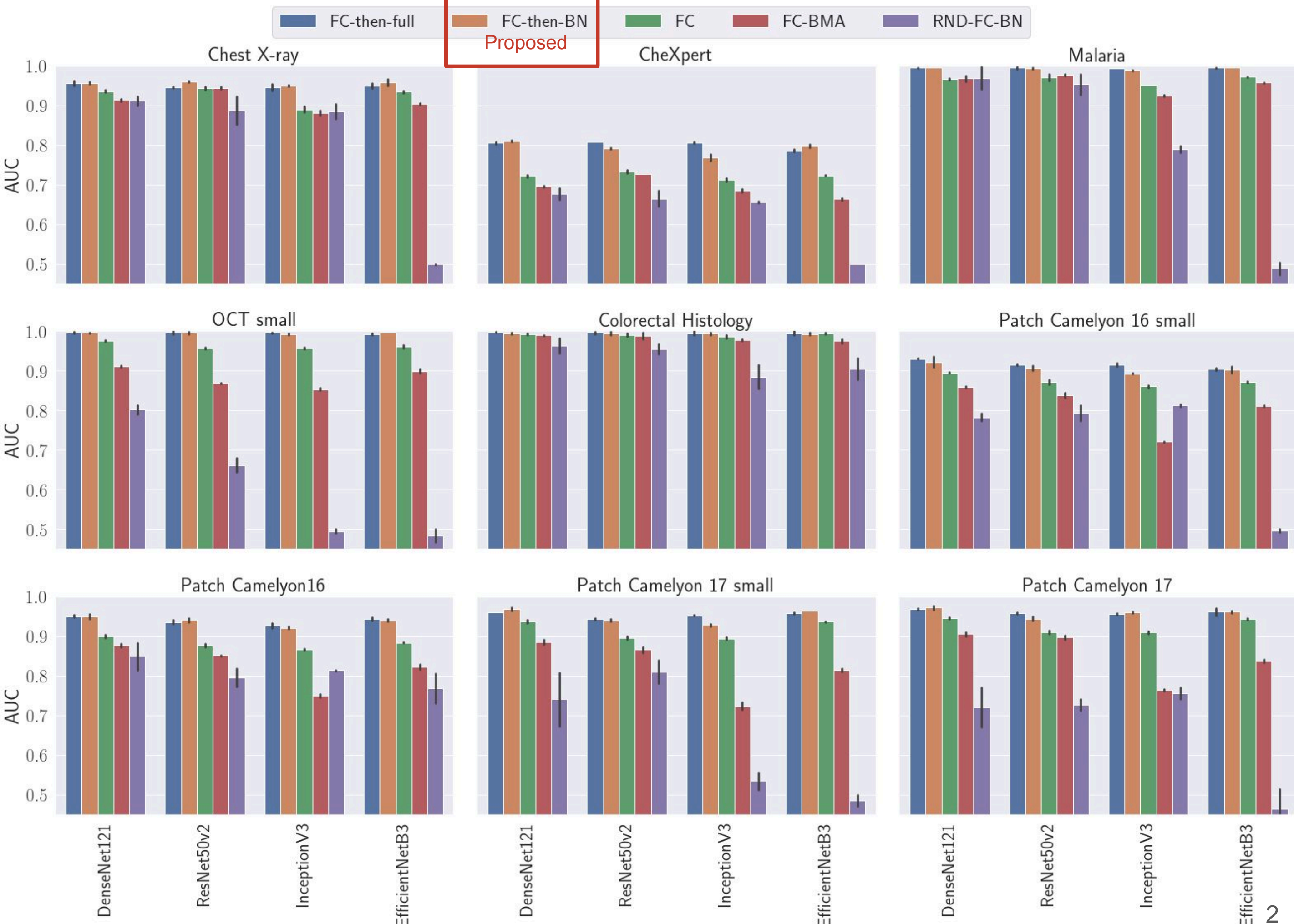
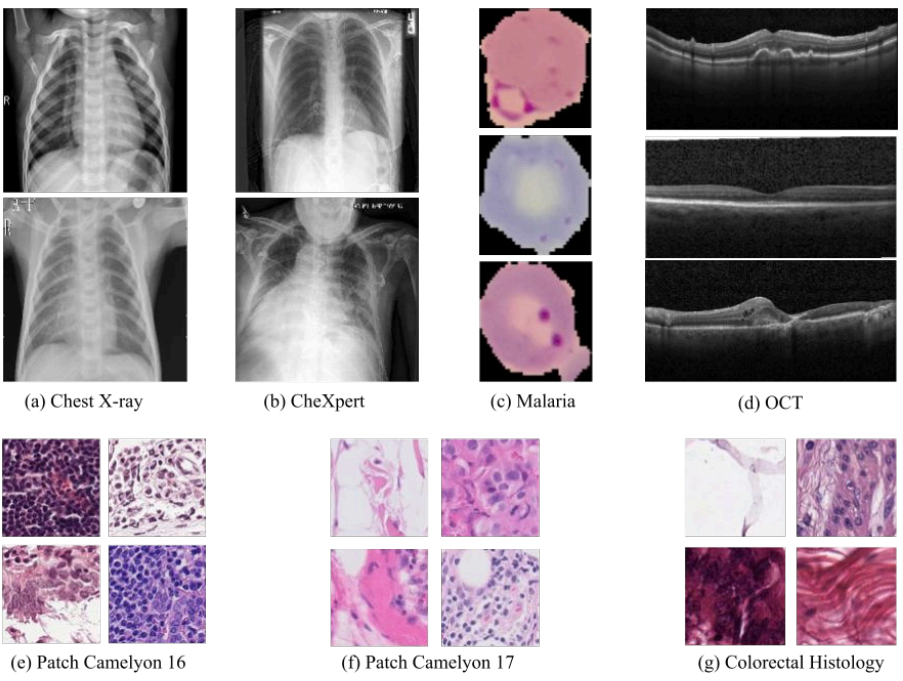
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# Results



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# Conclusion

- Fine-tuning only the batch norm affine parameters leads to similar performance as to fine-tuning all of the model parameters while transfer learning from ImageNet.
- Faster training time.

Non-trainable moving averages (kept frozen)

$$\gamma \left( \frac{\mathbf{x} - \mu}{\sigma + \epsilon} \right) + \beta$$

Trainable/differentiable affine parameters

