Propositions accompanying the thesis

Shifting representations
Adventures in cross-modality domain adaptation for medical image analysis

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1. For sufficiently large classification models, combining supervised and unsupervised learning improves performance. *(Chapter 2)*

2. Synthesized images can replace missing modalities in incomplete datasets for multi-modal image classification. *(Chapter 3)*

3. Translating images between modalities helps to learn modality-invariant features. *(Chapter 4)*

4. Unpaired, unsupervised domain adaptation does not work without assumptions. *(Chapter 5)*

5. Multi-modal image analysis is a good use case for studying domain adaptation. *(This thesis)*

6. An interesting method that does not work is more fun than a boring method that does.

7. In machine learning as in economics, strictly minimising a loss rarely maximises profit.

8. Like self-driving cars, fully automated radiologists are always ten years away.

9. Big tech companies may not be good for the field of medical image analysis.

10. Gradient descent is not a suitable approach to hiking.

11. If you have low expectations, you will be positively surprised.