Table A1 Qualitative results for the A2C view in echocardiograms using different model-agnostic meta learning methods.

|  |  |  |  |
| --- | --- | --- | --- |
| k-shot | Training method | Metric | A2C (CAMUS(Leclerc et al. 2019b)) |
| 1st point | 2nd point | 3rd point | 4th point | Avg. |
| 100 | Baseline | MDE  | 7.96 ± 4.15 | 3.78 ± 3.81 | 3.15 ± 2.68 | 3.36 ± 2.31 | **4.56 ± 3.84** |
| 5 | FOMAML(Finn et al. 2017) | MDE | 15.18 ± 6.47 | 11.68 ± 12.96 | 15.42 ± 18.40 | 12.20 ± 16.09 | 13.62 ± 14.36 |
| Meta-SGD(Li et al. 2017) | MDE | 9.80 ± 5.10 | 9.51 ± 9.60 | 13.11 ± 17.36 | 15.93 ± 21.21 | 12.09 ± 14.82 |
| Meta-Curvature(Park & Oliva 2019) | MDE | 13.57 ± 7.17 | 9.17 ± 16.46 | 5.95 ± 10.71 | 13.83 ± 21.20 | 10.62 ± 15.08 |
| ANIL(Raghu et al., 2019) | MDE | 94.44 ± 28.53 | 19.57 ± 19.10 | 18.54 ± 20.64 | 24.77 ± 21.69 | 39.33 ± 22.49 |
| 10 | FOMAML(Finn et al. 2017) | MDE | 14.93 ± 7.07 | 6.07 ± 6.07 | 5.76 ± 5.43 | 7.88 ± 10.41 | 8.66 ± 8.39 |
| Meta-SGD(Li et al. 2017) | MDE | 18.30 ± 12.10 | 7.20 ± 11.18 | 8.59 ± 11.16 | 7.33 ± 10.49 | 10.35 ± 12.05 |
| Meta-Curvature(Park & Oliva 2019) | MDE | 13.62 ± 7.33 | 7.06 ± 9.48 | 15.10 ± 24.27 | 9.73 ± 14.41 | 11.37 ± 15.49 |
| ANIL(Raghu et al., 2019) | MDE | 87.44 ± 32.62 | 22.24 ± 24.91 | 17.65 ± 20.78 | 21.43 ± 23.05 | 37.19 ± 25.34 |
| 20 | FOMAML(Finn et al. 2017) | MDE | 10.60 ± 4.04 | 4.50 ± 3.30 | 5.81 ± 4.24 | 6.44 ± 3.47 | 6.84 ± 4.38 |
| Meta-SGD(Li et al. 2017) | MDE | 9.38 ± 3.96 | 7.10 ± 8.20 | 9.62 ± 11.43 | 7.88 ± 5.56 | 8.49 ± 7.80 |
| Meta-Curvature(Park & Oliva 2019) | MDE | 15.16 ± 5.86 | 6.48 ± 10.15 | 6.60 ± 12.15 | 9.14 ± 7.88 | 9.34 ± 6.87 |
| ANIL(Raghu et al., 2019) | MDE | 71.80 ± 43.43 | 30.15 ± 32.24 | 19.28 ± 19.31 | 18.55 ± 19.24 | 34.95 ± 28.56 |
| 30 | FOMAML(Finn et al. 2017) | MDE | 9.67 ± 4.92 | 3.37 ± 2.40 | 3.05 ± 1.73 | 5.83 ± 3.61 | 5.48 ± 4.28 |
| Meta-SGD(Li et al. 2017) | MDE | 9.97 ± 4.74 | 3.85 ± 3.27 | 3.05 ± 2.05 | 6.60 ± 4.96 | 5.87 ± 4.75 |
| Meta-Curvature(Park & Oliva 2019) | MDE | 9.73 ± 4.44 | 4.71 ± 2.15 | 4.66 ± 2.83 | 6.57 ± 3.58 | 6.42 ± 3.92 |
| ANIL(Raghu et al., 2019) | MDE | 19.59 ± 21.86 | 32.65 ± 36.00 | 29.23 ± 36.85 | 37.32 ± 43.20 | 29.70 ± 34.48 |

A2C, Apical 2-chamber; Avg, Average; MDE, Mean Distance Error; MAE, Mean Angle Error

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