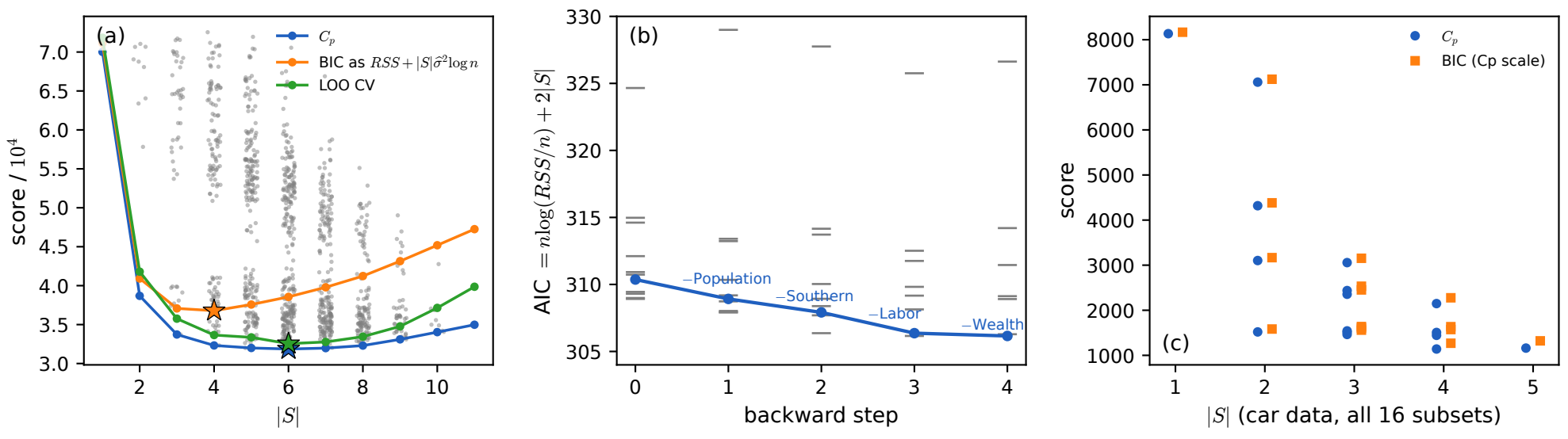

(a)
C_p
BIC as $RSS + |S|\hat{\sigma}^2 \log n$
LOO CV
score / 10^4
7.0
6.5
6.0
5.5
5.0
4.5
4.0
3.5
3.0
2
4
6
8
10
$|S|$
(b)
AIC $= n\log(RSS/n) + 2|S|$
330
325
320
315
310
305
Population
Southern
Labor
Wealth
0
1
2
3
4
backward step
(c)
C_p
BIC (Cp scale)
score
8000
7000
6000
5000
4000
3000
2000
1000
1
2
3
4
5
$|S|$ (car data, all 16 subsets)