

A Combinatorial Search of Parameterized Quantum Circuit Learning for Chemical Applications

Grier M. Jones,^{†,‡} Nick Taylor,[†] Viki Kumar Prasad,^{†,‡} Ulrich Fekl,^{*,‡} and
Hans-Arno Jacobsen^{*,†}

[†] *The Edward S. Rogers Sr. Department of Electrical and Computer Engineering, University of
Toronto, 10 Kings College Road, Toronto, Ontario, Canada M5S 3G4*

[‡] *Department of Chemical and Physical Sciences, University of Toronto Mississauga, 3359
Mississauga Road, Mississauga, Ontario, Canada L5L 1C6*

E-mail: ulrich.fekl@utoronto.ca; jacobsen@eecg.toronto.edu

Electronic Supplementary Information

Table of Contents

Section	Page
S1 Model Calibration using Function Fitting	S-2
S2.	S-3
S3.	S-3

1 Model Calibration using Function Fitting

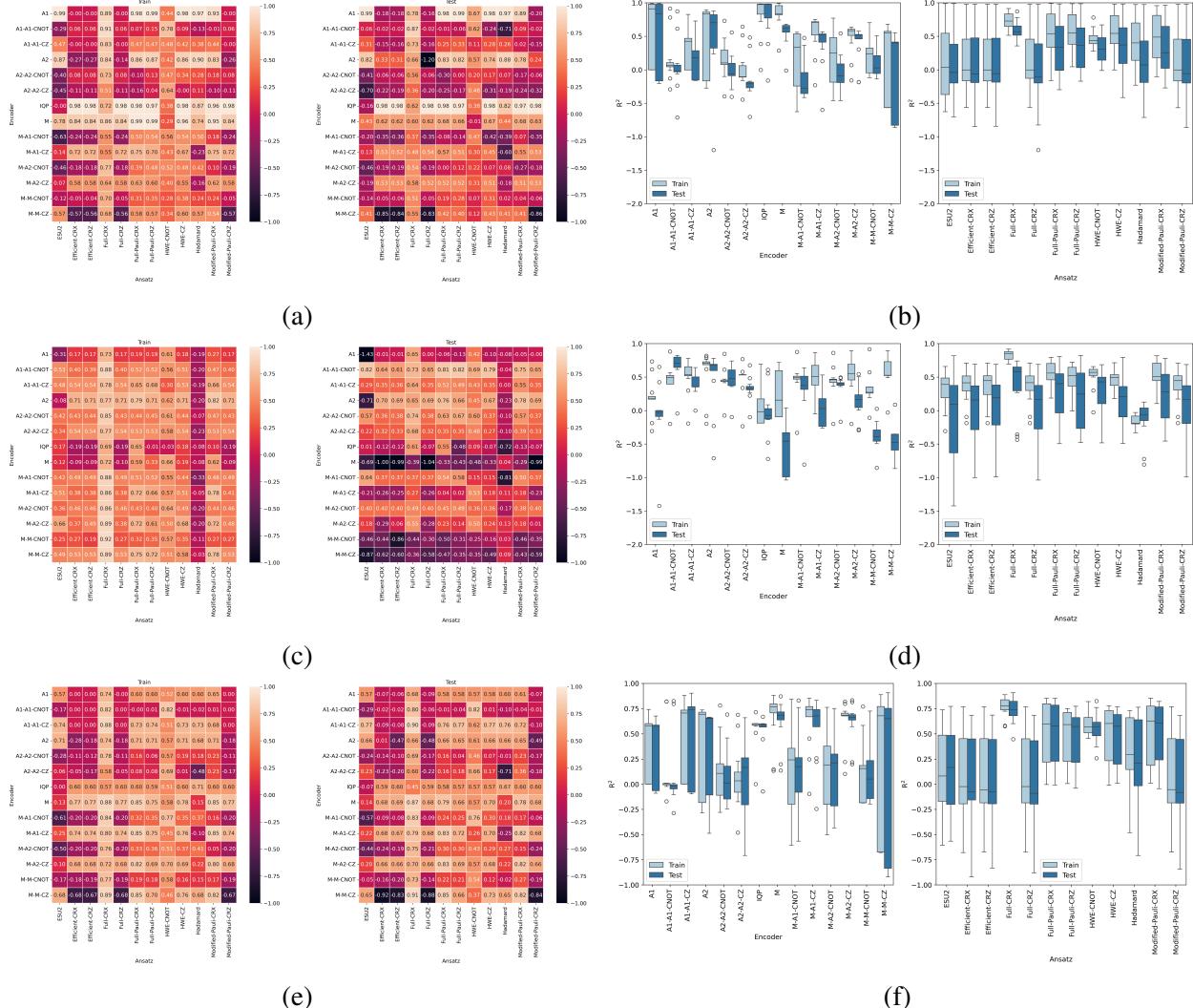


Figure 1: Five qubit function fitting results for the linear function (a) and (b), quadratic (c) and (d), and sine function (e) and (f).

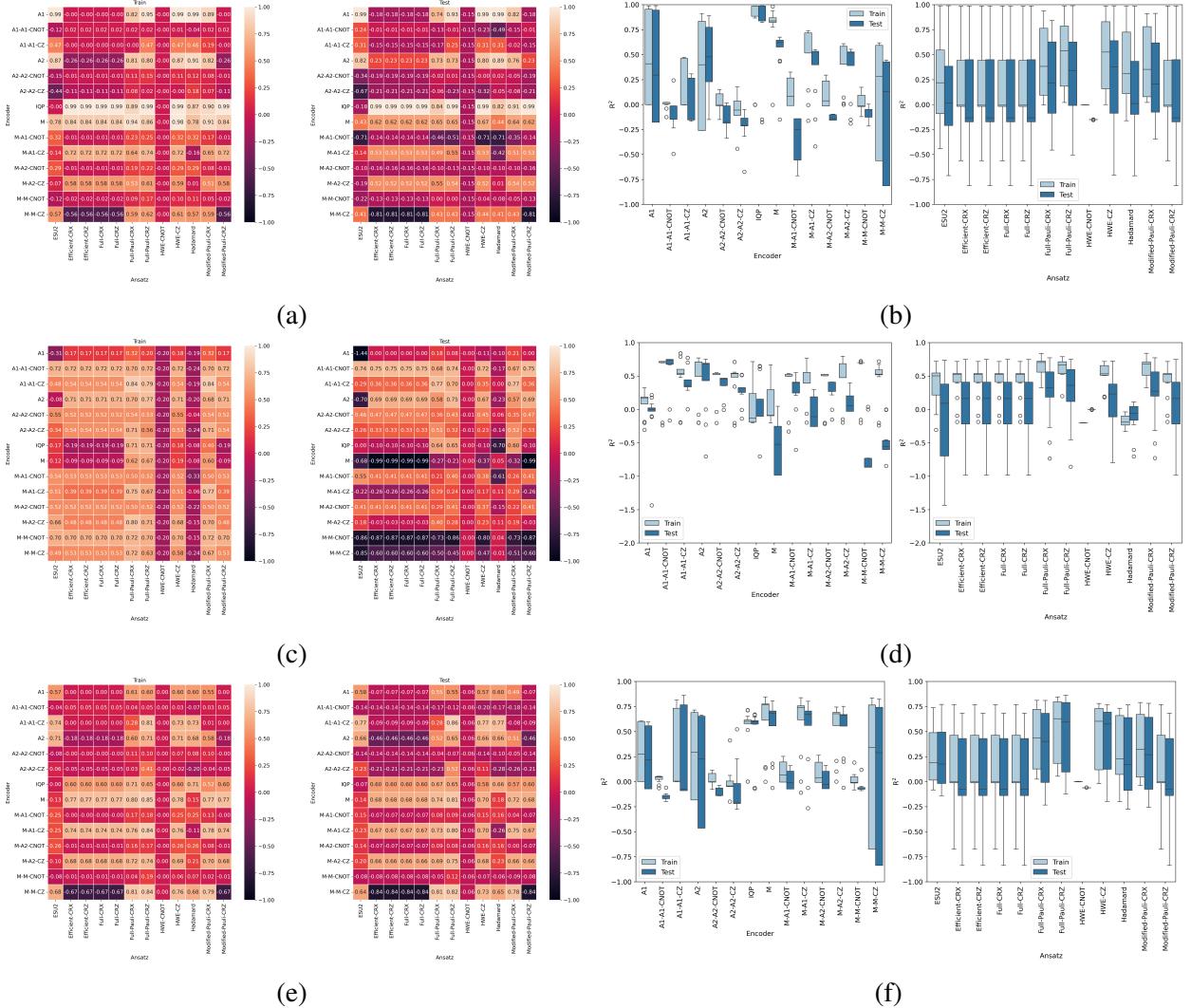


Figure 2: Five qubit function fitting results for the linear function (a) and (b), quadratic (c) and (d), and sine function (e) and (f).

2 title

3 title