



UNIVERSITY OF
MARYLAND

Department of Economics
Tydings Hall, Room 3114D
College Park, Maryland 20742-7211
301.405.3544 TEL 301.405.3542 FAX

To: Dean of Research and Graduate Studies
From: Director of Graduate Studies in Economics
Date: 3/13/2024

This is to certify that Rachel Nesbit made substantial contributions to
the relevant aspects of the jointly authored work included in this dissertation.

Guido Kucster (Chairman) Guido Kucster
Nolan Page (co-chair) Nolan Page
John Shea (Director of Graduate Studies)
John Shea