

AGAINST REDUCTION

AGAINST REDUCTION

DESIGNING A HUMAN FUTURE
WITH MACHINES

Noelani Arista, Sasha Costanza-Chock,
Vafa Ghazavi, Suzanne Kite, Cathryn Klusmeier,
Jason Edward Lewis, Archer Pechawis,
Jaclyn Sawyer, Gary Zhexi Zhang, And
Snoweria Zhang

Introduction by Kate Darling

The MIT Press
Cambridge, Massachusetts
London, England

© 2021 Massachusetts Institute of Technology

This work is subject to a Creative Commons CC-BY-NC-ND license.



Subject to such license, all rights are reserved.

The MIT Press would like to thank the anonymous peer reviewers who provided comments on drafts of this book. The generous work of academic experts is essential for establishing the authority and quality of our publications. We acknowledge with gratitude the contributions of these otherwise uncredited readers.

This book was set in Minion and Neue Haas Grotesk by Westchester Publishing Services.

Library of Congress Cataloging-in-Publication Data

Names: Arista, Noelani, author.

Title: Against reduction : designing a human future with machines /
Noelani Arista, Sasha Costanza-Chock, Vafa Ghazavi, Suzanne Kite,
Cathryn Klusmeier, Jason Edward Lewis, Archer Pechawis, Jaclyn Sawyer,
Gary Zhexi Zhang, Snoweria Zhang ; introduction by Kate Darling.

Description: Cambridge, Massachusetts : The MIT Press, [2021] |

Includes bibliographical references and index.

Identifiers: LCCN 2020053013 | ISBN 9780262543125 (paperback)

Subjects: LCSH: Artificial intelligence--Moral and ethical aspects. |
Artificial intelligence--Social aspects.

Classification: LCC Q334.7 .A75 2021 | DDC 303.48/34--dc23

LC record available at <https://lccn.loc.gov/2020053013>

CONTENTS

INTRODUCTION vii
Kate Darling

- 1 MAKING KIN WITH THE MACHINES 1**
Jason Edward Lewis, Noelani Arista, Archer Pechawis,
and Suzanne Kite
- 2 THE WICKED QUEEN'S SMART MIRROR 21**
Snoweria Zhang
- 3 DESIGN JUSTICE, AI, AND ESCAPE FROM THE MATRIX
OF DOMINATION 39**
Sasha Costanza-Chock
- 4 THE FLUID BOUNDARIES OF NONCOMMUNICABLE
DISEASE 61**
Cathryn Klusmeier
- 5 WHAT SOCIAL WORK GOT RIGHT AND WHY IT'S
NEEDED FOR OUR (TECHNOLOGY) EVOLUTION 81**
Jaclyn Sawyer
- 6 SYSTEMS SEDUCTION: THE AESTHETICS
OF DECENTRALIZATION 97**
Gary Zhexi Zhang

**7 SYSTEMS JUSTICE, AI, AND THE MORAL
IMAGINATION 117**

Vafa Ghazavi

APPENDIX 141

LIST OF CONTRIBUTORS 155

INDEX 159