

Contents

Acknowledgments ix

- 1 Data Science to Human-Centered Data Science 1**
- 2 The Data Science Cycle 13**
- 3 Interrogating Data Science 31**
- 4 Techniques and Tools for Data Science Models 51**
- 5 Human-Centered Approaches to Data Science Problems 75**
- 6 Human-Centered Data Science Methods 93**
- 7 Collaborations across and beyond Data Science 115**
- 8 Storytelling with Data 129**
- 9 The Future of Human-Centered Data Science 147**

Glossary 153

References 163

Index 179