### Contents

**Contributors** — vii

Aliyah Morgenstern and Susan Goldin-Meadow

1 **Introduction to Gesture in Language** — 3

---

#### I An Emblematic Gesture: Pointing

Kensy Cooperrider and Kate Mesh

2 **Pointing in Gesture and Sign** — 21

Aliyah Morgenstern

3 **Early Pointing Gestures** — 47

---

#### II Gesture Before Speech

Meredith L. Rowe, Ran Wei, and Virginia C. Salo

4 **Early Gesture Predicts Later Language Development** — 93

Olga Capirci, Maria Cristina Caselli, and Virginia Volterra

5 **Interaction Among Modalities and Within Development** — 113

---

#### III Gesture With Speech During Language Learning

Eve V. Clark and Barbara F. Kelly

6 **Constructing a System of Communication With Gestures and Words** — 137

Pauline Beaupoil-Hourdel

7 **Embodying Language Complexity: Co-Speech Gestures Between Age 3 and 4** — 157

Casey Hall, Elizabeth Wakefield, and Susan Goldin-Meadow

8 **Gesture Can Facilitate Children’s Learning and Generalization of Verbs** — 185
IV Gesture After Speech Is Mastered

Jean-Marc Colletta
9 On the Codevelopment of Gesture and Monologic Discourse in Children — 205

Susan Wagner Cook
10 Understanding How Gestures Are Produced and Perceived — 243

Tilbe Göksun, Demet Özer, and Seda Akbıyık
11 Gesture in the Aging Brain — 269

V Gesture With More Than One Language

Elena Nicoladis and Lisa Smithson
12 Gesture in Bilingual Language Acquisition — 297

Marianne Gullberg
13 Bimodal Convergence: How Languages Interact in Multicompetent Language Users’ Speech and Gestures — 317

Gale Stam and Marion Tellier
14 Gesture Helps Second and Foreign Language Learning and Teaching — 335

Aliyah Morgenstern and Susan Goldin-Meadow
Afterword: Gesture as Part of Language or Partner to Language Across the Lifespan — 365

Index — 371

About the Editors — 383