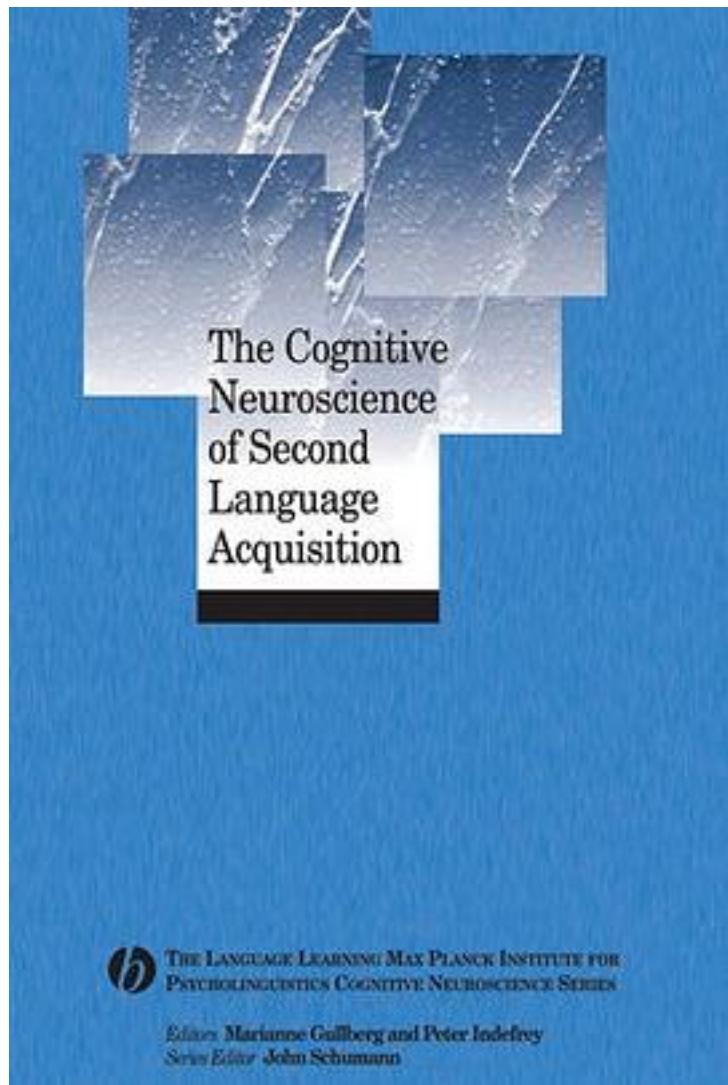


# The Cognitive Neuroscience of Second Language Acquisition



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This volume explores the cognitive neuroscience of second language acquisition from the perspectives of critical/sensitive periods, maturational effects, individual differences, neural regions involved, and processing characteristics. The research methods used include functional magnetic resonance imaging (fMRI), positron emission tomography (PET), and event related potentials (ERP).

- The studies in this volume provide initial answers to core questions including: which brain areas are reliably activated in second language processing? Are they the same or different from those activated in first language acquisition and use? And what are the behavioral consequences of individual differences among brains?

## 作者介绍:

John H. Schumann is Professor of Applied Linguistics at the University of California at Los Angeles. He has a doctoral degree in education with a specialization in human development from Harvard University. His research includes work on second language acquisition, the neurobiology of language, and the evolution of language. He is the author of *The Neurobiology of Affect in Language* (Blackwell, 1997) and is a co-author of *The Neurobiology of Learning* (2004).

Peter Indefrey is Principal Investigator at the F.C. Donders Centre for Cognitive Neuroimaging in Nijmegen and, together with Marianne Gullberg, Head of the research project "The Dynamics of Multilingual Processing" at the Max Planck Institute for Psycholinguistics. He has a M.D. and a Ph.D. in Linguistics from the Heinrich Heine University Düsseldorf. His research is on first and second language processing and its neural correlates. Some of his favorite topics are syntactic and morphological processing, word production, reading, and the development of language processing in L2 learners. He has published in a variety of journals, including *Cognition*, *PNAS*, *Neuroimage*, *Journal of Experimental Psychology, Brain and Language*, and *Journal of Cognitive Neuroscience*.

Marianne Gullberg is a Scientific Staff member at the Max Planck Institute for Psycholinguistics in Nijmegen and, together with Peter Indefrey, Head of the research project "The Dynamics of Multilingual Processing" at this Institute. She holds a Ph.D. in Linguistics from Lund University, Sweden. Her research focuses on the processing of second and third languages, particularly at the earliest stages of acquisition and at the advanced or bilingual stage. Topics covered range from lexical semantics, implicit learning, cross-linguistic (bi-directional) influences, code-switching, and the production and comprehension of gestures in a cross-linguistic perspective. She has published in a variety of journals, including *Language Learning*, *Journal of Child Language*, and *Pragmatics & Cognition*.

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