

Hearing Faces: How the Infant Brain Matches the Face It Sees with the Speech It Hears

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Abstract

■ Speech is not a purely auditory signal. From around 2 months of age, infants are able to correctly match the vowel they hear with the appropriate articulating face. However, there is no behavioral evidence of integrated audiovisual perception until 4 months of age, at the earliest, when an illusory percept can be created by the fusion of the auditory stimulus and of the facial cues (McGurk effect). To understand how infants initially match the articulatory movements they see with the sounds they hear, we recorded high-density EKPs in response to auditory vowels that followed a congruent or incongruent silently articulating face in 10-week-old infants. In a first experiment, we determined that auditory–visual integration occurs during the early stages of perception as in adults. The mismatch response was similar in timing and in topography whether the preceding vowels were presented visually or aurally. In the

second experiment, we studied audiovisual integration in the linguistic (vowel perception) and nonlinguistic (gender perception) domain. We observed a mismatch response for both types of change at similar latencies. Their topographies were significantly different demonstrating that cross-modal integration of these features is computed in parallel by two different networks. Indeed, brain source modeling revealed that phonemic and gender computations were lateralized toward the left and toward the right hemisphere, respectively, suggesting that each hemisphere possesses an early processing bias. We also observed repetition suppression in temporal regions and repetition enhancement in frontal regions. These results underscore how complex and structured is the human cortical organization which sustains communication from the first weeks of life on. ■

INTRODUCTION

Phonemes are the elementary building blocks of speech, the combination of which allows the rich verbal exchanges between members of the human species. In adults, they are processed by a specialized and highly efficient left-hemispheric network, which subserves the singular properties of phoneme perception, such as categorical perception, normalization across nonpertinent acoustical variations, and so forth. There is a long-lasting debate about whether a similar network that might favor language acquisition is present in infants. Striking similarities are observed between infant and adult performances. Like adults, infants perceive phonemes categorically from birth (Eimas, Siqueland, Jusczyk, & Vigorito, 1971) and are able to normalize speech input (Kuhl, 1983). ERP studies have revealed that these capacities are based on a fast computation of a phonetic representation. Indeed, in infants, the

response to a change of syllable occurring after several repetitions of the same syllable (mismatch response, MMR) demonstrates two of the main properties used to define phonetic representations in adults. First, the MMR is not affected by irrelevant variation in speaker (Dehaene-Lambertz & Pena, 2001). Second, it is categorical, being dependent on the linguistic value of the acoustical change. The MMR is larger after a change of syllable that crosses a phonetic boundary than after an acoustically similar change that occurs within the phonetic category (Dehaene-Lambertz & Baillet, 1998). Dipole modeling of the sources of this MMR points toward a temporal origin in infants (Dehaene-Lambertz & Baillet, 1998; Dehaene-Lambertz & Dehaene, 1994) as in adults (Näätänen et al., 1997).

To increase our understanding of speech perception early in life, we can turn to another property of phoneme perception observed in adults—the rapid and automatic integration of facial cues. Seeing the articulatory movements of the speaker improves the detection (Grant & Seitz, 2000) and understanding of speech sounds (Erber, 1975), especially in noisy situations. Moreover, facial information can modify the perception of speech sounds giving rise to a novel percept, a

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Hearing Faces

Mr. Rohit Manglik



Hearing Faces:

I Can Hear Your Face Joan L. Brumble, 2014-01-08 ABOUT THE BOOK God has spoken to me on numerous occasions in reference to the title of the book I even shared the concept with a visiting pastor perhaps making it a sermon but to no avail I had felt it had fallen on deaf ears But later I knew that was part of God's plan When the idea of ICHYF I Can Hear Your Face was conceived in my heart and spirit it became alive and burned within my soul and then it came my Heavenly Father spoke to me I choose you I am the one who inspired and planted the seed in your heart I am the one keeping this concept alive I nourished it continually Write it down my daughter I will give you the inspiration to write the words as coming from me Live through them my daughter make my words come alive It pleases me that you are willing to obey me Remember my words when I said that I know you have little strength you've tried your best to keep my word and you have not denied my name These words will be my testimony of the truth I cannot deny my own name That which was first conceived in my spirit and my heart ICHYF really isn't anything new but it is speaking to a new audience perhaps because of a generational gap in coming from a solid Christian home All the trials heartaches much pain in my life God has worked out for good What he has and is doing in my life he will do for you Listen for God to whisper how much he loves you at the turn of every page All through the writing process I prayed for each one of you my readers that you will be truly be blessed by our Abba Father **The**

Changing Face of Health Care Social Work, Third Edition Sophia F. Dziegielewska, 2013-05-03 This third edition of a best selling social work text reflects the dramatic changes that have taken place in our health care environment since the second edition was published in 2004 and will likely continue to take place It is a practical guide for social workers who must navigate our complex health care environment and accept new challenges while adapting to continual change The book encompasses many facets of professional health care social work within the U S health care system across key health care settings and with numerous different patient populations The book is also a call to action for social workers who today must not only be therapeutically effective but must be professionally competitive with other health care providers that claim similar treatment strategies and techniques Permeating the third edition is a strong emphasis on the importance of developing best practices that are evidence based supportive and ethically accountable while remaining time limited and cost effective Each chapter contains a Glossary Questions for Further Study and a list of relevant websites At the end of each chapter a Future Directions section helps social workers understand what to expect and how to prepare for changes in order to practice successfully This third edition additionally encompasses updated professional profiles for diverse arenas of practice and is accompanied by an Instructor's Manual that provides a test bank activities designed to enhance learning and a sample syllabus Completely new or updated sections examine Mental health parity Changes in billing Evidence based practice strategy Electronic record keeping and other advances in health technology Information related to the DSM 5 Protecting yourself legally in your documentation Protecting the privacy of the client Supervision in the health care setting

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Hearings, Reports and Prints of the Senate Committee on the Judiciary United States. Congress. Senate. Committee on the Judiciary,1979 *The Praeger Guide to Hearing and Hearing Loss* Susan Dalebout,2008-12-30 More than 31 million people in the United States alone suffer from hearing loss that is one in every 10 people in the current population Of those only five to 10 percent can be treated medically leaving the largest number in need of other solutions It is for those people that veteran audiologist Susan Dalebout wrote this comprehensive guide The book explains with a simple overview of hearing anatomy and physiology how we hear and details hearing evaluation tests the interpretation of those tests and the conditions that most commonly cause hearing loss in adults All things related to adult hearing loss are explained as is a full menu of hearing rehabilitation services devices and technology This text includes discussion of the importance of hearing in our lives the psychological social and emotional effects of untreated hearing loss and the effects on family members and friends Also included is a chapter on prevention describing the dangers of exposure to hazardous noise and certain drugs and how to protect against damage to hearing Unique for its breadth and depth this text also offers detail on hearing aids care and maintenance as well as factors to consider when purchasing an aid cochlear implants hearing assistance technology and future trends in hearing restoration **How Internet Protocol-Enabled Services Are Changing The Face of**

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Vital and Health Statistics ,1963 Development and Maintenance of a National Inventory of Hospitals and Institutions ... National Center for Health Statistics (U.S.),1965 Counterterrorism : the changing face of terror : Congressional Hearing , *Music-Inspired Harmony Search Algorithm* Zong Woo Geem,2009-05-12 Calculus has been used

in solving many scientific and engineering problems For optimization problems however the differential calculus technique sometimes has a drawback when the objective function is step wise discontinuous or multi modal or when decision variables are discrete rather than continuous Thus researchers have recently turned their interests into metaheuristic algorithms that have been inspired by natural phenomena such as evolution animal behavior or metallic annealing This book especially focuses on a music inspired metaheuristic algorithm harmony search Interestingly there exists an analogy between music and optimization each musical instrument corresponds to each decision variable musical note corresponds to variable value and harmony corresponds to solution vector Just like musicians in Jazz improvisation play notes randomly or based on experiences in order to find fantastic harmony variables in the harmony search algorithm have random values or previously memorized good values in order to find optimal solution

Code of Federal Regulations, 2006 **Hearing on Challenges that Small Businesses Face Accessing Homeland Security Contracts** United States. Congress. House. Committee on Small Business. Subcommittee on Rural Enterprises, Agriculture, and Technology, 2003 **Proceedings of the Meeting of the Convention of American Instructors of the Deaf** Convention of American Instructors of the Deaf, 1926 List of members in 15th 26th Inter-American Yearbook on Human Rights / Anuario Interamericano de Derechos Humanos, Volume 19 (2003) Inter-American Commission on Human Rights, 2003-01-30 The print edition is available as a set of two volumes 9789004163935 **Advocacy** The City Law School, 2016-08-18 This title offers systematic coverage of the skills that make a good advocate It explains common tasks such as addressing the court and questioning witnesses illustrating to students the techniques that underpin advocacy Different Face of Clinical Geriatrics Mr. Rohit Manglik, 2024-05-16 Discusses the multidimensional aspects of geriatric care including cognitive physical and emotional changes Offers strategies for holistic elder care in clinical settings *Computer Vision - ACCV 2018* C.V. Jawahar, Hongdong Li, Greg Mori, Konrad Schindler, 2019-05-25 The six volume set LNCS 11361 11366 constitutes the proceedings of the 14th Asian Conference on Computer Vision ACCV 2018 held in Perth Australia in December 2018 The total of 274 contributions was carefully reviewed and selected from 979 submissions during two rounds of reviewing and improvement The papers focus on motion and tracking segmentation and grouping image based modeling deep learning object recognition object recognition object detection and categorization vision and language video analysis and event recognition face and gesture analysis statistical methods and learning performance evaluation medical image analysis document analysis optimization methods RGBD and depth camera processing robotic vision applications of computer vision **Bureaucratic Language in Government and Business** Roger W. Shuy, 1998-07-01 Plunging into the verbal quagmire of official language used by bureaucrats in both government and business distinguished linguist Roger W Shuy develops new techniques based on linguistic principles to improve their communication with the public Shuy presents nine case studies that reveal representative problems with bureaucratic language He characterizes the traits of bureaucratic language candidly though somewhat sympathetically and

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