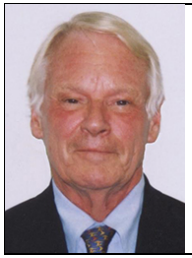
SPEAKER BIOGRAPHICAL SKETCHES

Impact of Early Life Deprivation on Cognition: Implications for the Evolutionary Origins of the Human Mind



Douglas K. Candland is Professor Emeritus of Psychology and Animal Behavior at Bucknell University where he directed the Program in Animal Behavior from 1960-2002. During this period, his research was chiefly with nonhuman primates, the latest studies being on their concept of number. Candland's interest in the psychology of presumed feral children lead to his writing the book *Feral Children and Clever Animals* (Oxford University Press, 1995). From 2002 to 2014, he was editor of the *Review of General Psychology*. He reviews books for *Life of the Mind and PsyCritiques*.

Charles A. Nelson III is a Professor of Pediatrics and Neuroscience and Professor of Psychology at Harvard Medical School, and Professor of Education in the Harvard Graduate School of Education. He also holds the Richard David Scott Chair in Pediatric Developmental Medicine Research at Boston Children's Hospital. Nelson's research centers on developmental cognitive neuroscience, including the effects of early adversity on brain and behavioral development. He chaired the John D. and Catherine T. MacArthur Foundation Research Network on Early Experience and Brain Development and served on the National Academy of Sciences (NAS) panels that wrote *From Neurons to Neighborhoods* (2000) and *New Directions in Child Abuse and Neglect Research* (2014).

Elissa Newport is Professor of Neurology, Psychology, and Linguistics and Director of the Center for Brain Plasticity and Recovery at Georgetown University. Her research interest is in language acquisition, including naturalistic studies of children learning their first languages, experimental studies of infants and adults learning miniature languages in the lab, fieldwork on emerging sign languages, and fMRI research on language and the brain. Newport has received the William James Lifetime Achievement Award, the Benjamin Franklin Medal for Computer and Cognitive Science, and the Norman A. Anderson Lifetime Achievement Award. She has been a member of the National Academy of Sciences since 2004.

Paula Tallal received her Ph.D. from Cambridge University and held academic positions at Johns Hopkins and UC San Diego School of Medicine before co-founding the Center for Molecular and Behavioral Neuroscience at Rutgers University. At Rutgers, she held the University's highest academic rank, Board of Governors Professor of Neuroscience. Currently, she is on the faculty at The Salk Institute. Tallal co-founded Scientific Learning Corporation (SCIL), which develops "smart technologies" that improve cognitive, linguistic, and academic outcomes. She holds dozens of patents and won the Thomas Alvin Edison Patent Award for her innovative research leading to the development of the Fast ForWord® series of neuroeducational training programs.

Faraneh Vargha-Khadem is a Professor of Developmental Cognitive Neuroscience at the UCL Great Ormond Street Institute of Child Health and the Clinical-Academic Lead for the Department of Neuropsychology at the Great Ormond Street Hospital for Children. She conducts research on the effects of early brain injury on neural circuits serving memory and learning, speech and language, spatial navigation, and movement organization. Vargha-Khadem has discovered the syndrome of developmental amnesia, identified the neural and behavioral phenotype of FOXP2 gene mutation in humans, and documented patterns of brain reorganization in children after brain surgery. She is a Fellow of the Academy of Medical Sciences, and the recipient of a number of awards.

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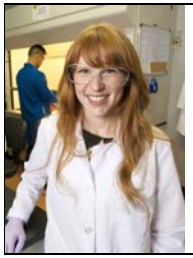

Danielle Stolzenberg is an Associate Professor in the Department of Psychology at UC Davis and an affiliate member of the UC Davis Center for Neuroscience. She received her B.S. in psychology from Stetson University in 2003, completed her Ph.D. in behavioral neuroscience at Boston College in 2009, and trained as a post-doctoral scholar from 2009-2012 at the University of Virginia. Broadly, Stolzenberg's research has investigated neural mechanisms involved in the onset and maintenance of maternal behavior in rodents. Her laboratory is currently focused on understanding how genetic and epigenetic mechanisms mediate experience-dependent changes in caregiving behavior.

Marcus Pembrey is a clinical geneticist and now Emeritus Professor of Paediatric Genetics at UCL Great Ormond Street Institute of Child Health, UK. He is visiting Professor of Paediatric Genetics at the University of Bristol, where he was Director of Genetics within the Avon Longitudinal Study of Parents and Children (ALSPAC) and continues his research. Pembrey's current research is focused on how human developmental variation is influenced by transmission of information (independent of DNA sequences) that is linked to the early-life experiences of parents and grandparents. He is a Fellow of the UK Academy of Medical Sciences.

Bruce S. McEwen is the Alfred E. Mirsky Professor and head of the Harold and Margaret Milliken Hatch Laboratory of Neuroendocrinology at Rockefeller University. McEwen's laboratory discovered stress and sex hormone receptors in the hippocampus, which led to the ongoing discovery that circulating steroid hormones affect cognition, mood, and many other neural processes, and with it, structural and functional plasticity of the adult and developing brain. As a member of a MacArthur Foundation Network, McEwen helped developed the the concept of "allostatic load and overload". He is a member of the National Scientific Council on the Developing Child which focuses on biological embedding of early life experiences and promoting healthy brain development.

Ann Masten is Regents Professor of Child Development at the University of Minnesota, Twin Cities, and studies resilience in human development, particularly in the context of poverty, homelessness, war, disaster, and migration. A past President of the Society for Research in Child Development, she has received numerous honors, including the Bronfenbrenner Award for Lifetime Contributions to Developmental Psychology from the American Psychological Association. Masten has authored more than 200 publications, including the book, *Ordinary Magic: Resilience in Development* (The Guilford Press, 2014), and she regularly offers a MOOC (mass open online course) through Coursera on "Resilience in Children Exposed to Trauma, Disaster and War: Global Perspectives."

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