

Prof. Dr. Jong-Tsun Huang

President, *Higher Education Evaluation and Accreditation Council of Taiwan (HEEACT)*

University Professor, *Graduate Institute of Biomedical Sciences, China Medical University, Taiwan*

Professor Emeritus, *Department of Psychology, National Taiwan University*



Education

- 1965 - 1969 B.S. in Psychology, National Taiwan University
- 1970 - 1972 M.S. in Psychology, National Taiwan University
- 1972 - 1976 Ph.D. in Experimental Psychology, National Taiwan University

Research & Professional Experiences

- 1982 -1983 Visiting Scholar at Harvard University, Carnegie-Mellon University, St. Louis University, and UCLA
- 1983 - 2000 Professor, Department of Psychology, National Taiwan University
- 1984 - 1994 Research Fellow, Academia Sinica
- 1988 - 1991 Editor in Chief, Chinese Journal of Psychology
- 1992 - 1994 President, Taiwanese Psychological Association
- 1993 – 1995 Chairperson, Department of Psychology, National Taiwan University
President, Taipei Society
- 1994 - 1996 Member, Council on Education Reform in the Cabinet
- 1995 - 1996 Chairperson, Center for Teacher Education, NTU
- 1996 - 1999 Director General, Division of Humanities and Social Sciences, National Science Council
- 1998 - 2000 President, Y. T. Lee Foundation for Science Education
- 2000 - 2002 Minister without Portfolio
Executive Director, Commission for 921 Earthquake Post-Disaster Recovery in the Cabinet
- 2002 - 2004 Minister, Ministry of Education
- 2004 - 2005 University Professor, Tamkang University
- 2005 - 2011 President, Foundation for the Advancement of Private Schools
President, Taiwan Association of University General Education
- 2005 - 2014 President, China Medical University (Taiwan)
- 2012 - 2016 President, Taiwan Acoustical Association
- 2013 - Editor in Chief, Health and Society: A Journal for Dialogue
- 2014 - University Professor, Graduate Institute of Neural and Cognitive Sciences, China Medical University (Taiwan)
- 2014- 2017 President, Taiwan Association for the Education of Chinese Medicine
- 2014- Member, Academia Sinica Council

- 2014- President, Higher Education Evaluation and Accreditation Council of Taiwan
- 2016 - 2018 President, Taiwan Association for Institutional Research
- 2016- Professor Emeritus, Department of Psychology, National Taiwan University

- **Professional Experiences**

- Member, American Psychological Association
- Member of ARVO, NYAS, and AAAS
- President, Taiwan Psychological Association
- Executive Board Member, Taiwan Acoustical Association
- President, Taiwan Acoustical Association (2012 ~)
- President, Taipei Society
- President, Y. T. Lee Foundation for Science Education
- Consultant, Aviation Medical Center, Civil Aeronautical Administration
- Member, Committee for Environmental Impact Assessment, Environmental Protection Agency
- Member, Council on Education Reform in the Cabinet
- Advisory Board Member, Neurobiology and Cognitive Science Center, National Taiwan University
- Advisory Board Member on the Humanities and Social Sciences, National Science Council
- Executive Board Member, Academic Review Committee, Ministry of Education
- President, Taiwan Association of University General Education
- President, Foundation for the Advancement of Private Schools (2005-2011)
- Co-Chair (with Allen Houg), Local Organizing Committee, 12th Annual Meeting of the Association for the Scientific Study of Consciousness (ASSC 12), June 19-22, 2008, Taipei.
- Co-Chair (with Chien-Chung Chen), Organizing Committee, 2010 Asia-Pacific Conference on Vision, July 23-26, 2010, Taipei.
- Editor-in-Chief, Chinese Journal of Psychology
- Editor-in-Chief, Health and Society: A Journal for Dialogue (2013 ~)
- Topic Editors (with YC Chiu, CH Lin, and JR Duan), Frontiers in Psychology (Iowa Gambling Task (IGT): Twenty Years After) (2013 ~)
- Committee Member of Presidential Science Award, Presidential Cultural Award, and Science Committee in the Cabinet

- **Research Interests**

The series of studies focus on two fundamental aspects of human cognitive functions: Processing Mechanism of Visual Perception and Decision and Choice Behavior. The research paradigm adopted a behavioral experimentation by incorporating with a computational approach. The following is a brief description of what have been done over the decades with a recent emphasis on the rationality

and emotionality issues in decision and choice behavior.

- **Processing Mechanism of Visual Perception**

- Chinese character recognition process. Exemplar studies are listed as follows: Time-dependent separability hypothesis in the association of Chinese characters, perceptual separability and cohesive processes in reading Chinese words, visual integration process in recognizing fragmented Chinese characters, component migration in Chinese characters, a test of Adaptive Resonance Theory and Carpenter/Grossberg Classifier in Chinese character recognition, from unit to gestalt: perceptual dynamics in recognizing Chinese characters, character information extraction through haptic and visual search, determination of access-route duality and temporal priority of phonological recoding, the effect of phase information and Fourier components in character recognition.
- Stereopsis and multi-channel interaction in vision. Exemplar studies: Stereoacuity measurement in depth perception, Bender-Gestalt response distortion among schizophrenics, laser experiments on false-target problem, sampling algorithm in contour finding, cooperative algorithm in human stereoscopic processing, interactive filling-in process in the emergence of illusory contour, effects of spatial frequency analysis in separating figure from ground under binocular fusion, effects of boundary and binocularity on the emergence of illusory color, monocular and binocular boundary cues in stereo matching, the interaction of the functional multichannel of human visual system, a stereo-finding algorithm based on an eye-movement-driven disparity-tuning strategy, a resolution of time-paradox in apparent motion, monocular and binocular behavior around the blind spot, the involvement of superior frontal gyri in perceiving bistability of binocular rivalry and ambiguous figure, the effect of global diagnosticity and complexity on object recognition.

- **Decision and Choice Behavior**

- General mechanisms in decision and choice. Exemplar Studies: Parametric properties and their reduction in human conservatism, cross-cultural comparison on the attributes of intelligent behavior, the fallibility and its reduction in reasoning, a dynamic-theoretic analysis of environmental discontent, streamlining of ambiguity effect in decisional process, the isolation effect in prospect theory.
- Rationality and emotionality in decision and choice. Exemplar studies: The effect of long-term outcome and gain-loss frequency in the Iowa Gambling Task, insensitivity to expected values in a dynamically-uncertain gamble, human consciousness in an uncertain gamble, a behavioral decision analysis in educational debates, a test of the effect of rationality and emotionality on Somatic Marker Hypothesis.