

## RESEARCH SUPPORT

- "Encoding of Loudness in Excitation Patterns" Purdue Research Foundation Summer Faculty XL Grant, 1975.
- "Frequency Discrimination and Pitch of Complex Tones" NIH U.S. Public Health Service NS 12235 (1975 - 1982).
- "The Acoustics of Hearing Aids" NIH U.S. Public Health Service NS 12526 (1975 - 1978).
- "Auditory Spectral Resolution" NIH U.S. Public Health Service Research Career Development Award (1978 - 1982).
- "Auditory Frequency Selectivity after Noise Exposure" NIH U.S. Public Health Service ES-NS 02334 (1980 - 1984).
- "The Effects of Hearing Aid Amplification on Residual Hearing in Children" Co-Investigator (with C.A. Binnie, A. E. Carney, and W. A. Cooper) NIH Research Contract (1980 - 1983).
- "Pitch of Narrow Bandwidth Signals" University of Kansas New Faculty Grant (1982 - 1983).
- "Effects of Noise on Forward-Masking Functions" University of Kansas General Research Fund Grant (1983 - 1984).
- "Vibrotactile Perception of Speech" University of Kansas General Research Fund Grant (1984 - 1985), and Biomedical Research Support (1983).
- "Auditory Temporal Acuity following Noise Exposure" NIH U.S. Public Health Service OH 02141 (1985 - 1987).
- "Demodulation Processes in Auditory Perception" Air Force Office of Scientific Research (1986 - 1996).
- "Speech Recognition Using Abduction and Multiple Knowledge Types" Co-Investigator with J. Josephson, NSF (1989-1990).
- "Speech Recognition and Auditory Processing" Center for Cognitive Science Seed Grant Ohio State University (1990-1991).
- "Age Effects on DPOE and Speech Discrimination" Minority Dissertation Grant for Soami Santiago de Snyder from the National Institute on Aging (1992-1993).
- "Frequency Modulated Signals as a Measure of Temporal Acuity in Cochlear Implant Patients" Interdisciplinary Seed Grant Vice President for Research OSU (1993-94).
- "Interactive Experiences for Acoustics," Battelle Endowment (BETHA), (1997-98).
- "Pre-processing of Speech Signals for Telephone Communication with Aging Clients: A Feasibility Study" Franklin County Office on Aging / Ameritech Foundation (1997-99).
- "Speech Processing for Telephone Use by Elderly, Hearing-Impaired Listeners," Ameritech Faculty Research Grant (2000 – 2001).
- "Speech Processing for Improved Intelligibility by Elderly, Hearing-Impaired Users of the Telephone," Air Force Summer Faculty Fellowship Program, (Summer 2000).
- "Bone-conducted Noise Reduction," Subcontract from Sytronics, Inc. Dayton, Ohio, (Fall 2001 – Spring 2002).
- "Auditory Spectral Integration: Complex Sounds and Speech," NIH – NIDCD US Public Health Service (Sept. 2005 – Aug. 2009).
- "Speech Processing for Telephone Use by Elderly, Hearing-Impaired Listeners," Co-Investigator, S. Davidson, PI, Phase1 SBIR NIH – NIA, subcontract from FutureComm, (Gahanna, OH), (Sept 2005 – March 2006).
- "Spectrotemporal Integration and Noise-Induced Hearing Loss: Development of a Rapid Assessment Tool," Office of Naval Research (June 1, 2009 – Sept 30, 2013).
- "Community-based kiosks for hearing screening and education," sub-contract from the Oregon Health & Sciences University NIH – NIDCD (Dec. 1, 2013 – May 31, 2016).

- “The Columbus Sound Track Project: Engaging Citizen-Scientists to Map Noise Levels in Columbus, OH,” BETHA, (July 1, 2015 – June 30, 2017).
- “Detection of Aircraft by Human Listeners,” Sub-contract from circular Logic (AFOSR) (August 28, 2015 – May 31, 2016).
- “The Institute for the design of environments aligned for patient safety (IDEA4PS),” Co-I Agency for Healthcare Research & Quality, P30HS024379, (Sept. 30, 2015 – Sept 29, 2016)