

SDSU/UCSD AUD PROGRAM

STUDENT RESEARCH PROJECTS

(2007-PRESENT)

2007-2008

- ✦ High- and Low-Frequency Distortion Product Otoacoustic Emissions (DPOAEs) in Different Races and Genders: Level Sweeps and DPOAE Thresholds, Kristin Cowart, 2007, Chair: Laura Dreisbach-Hawe, Ph.D. (SDSU).
- ✦ Optimizing Presentation Level for Speech Recognition Testing, Leslie Ann Guthrie, 2007, Chair: Carol L. Mackersie, Ph.D. (SDSU).
- ✦ Development and Evaluation of the Spanish Computer-Assisted Speech Perception Assessment Test (CASPA), Noemi Renteria Haro, 2007, Chair: Carol L. Mackersie, Ph.D. (SDSU).
- ✦ Evaluation of CHAMP as a Diagnostic Tool for Cochlear Hydrops/Meniere's Disease, Yan Li, 2007, Chair: Erika Zettner, Ph.D. (UCSD).
- ✦ Comparison of Results from Speech and Language Screenings with Hearing Screenings with Children Ages 3-7 Years Old, Catherine J. Moyer, 2007, Chair: Peter Torre III, Ph.D. (SDSU).
- ✦ Evaluation of Eustachian Tube Function in Normal Subjects, Ariz Slali, 2007, Chair: Erika Zettner, Ph.D. (UCSD).
- ✦ Hearing Sensitivity Characteristics from The Hispanic Health and Nutritional Examination Survey, Lori Helen Summerfield, 2007, Chair: Peter Torre III, Ph.D. (SDSU).
- ✦ Comparison of Continuous and Pulsed Tones in Normal-Hearing and Hearing-Impaired Individuals, Danielle Allen, 2008, Chair: Peter Torre III, Ph.D. (SDSU).
- ✦ Ipsilateral Acoustic Reflex Thresholds at 1000 Hz as a Function of Degree of Cochlear Hearing Loss, Kristy L. Baldwin-Martinez, 2008, Chair: Steve J. Kramer, Ph.D. (SDSU).
- ✦ The Reliability of the CHAMP in Identifying Normals and the Under-masking Effect, Jennifer Ann Clark, 2008, Chair: Steve J. Kramer, Ph.D. (SDSU).
- ✦ Effects of Varying Degrees of Tinnitus on Low- and High-Frequency Distortion Product Otoacoustic Emission Amplitudes, Courtney Ewell, 2008, Chair: Laura Dreisbach, Ph.D. (SDSU).
- ✦ Distortion Product Otoacoustic Emissions and Ultra-High Frequency Puretone Thresholds in Patients with Cystic Fibrosis Taking Tobramycin, Carrie Lakin, 2008, Chair: Erika Zettner, Ph.D. (UCSD).
- ✦ The Effect of Spontaneous Otoacoustic Emissions on High-Frequency Distortion-Product Otoacoustic Emissions, Shannon Lees, 2008, Chair: Laura Dreisbach, Ph.D. (SDSU)
- ✦ Comparison of Ultra-High Frequency Distortion Product Otoacoustic Emissions and Ultra-High Frequency Behavioral Pure-Tone Thresholds in Normally Hearing Adults, Michael Lindeman, 2008, Chair: Laura Dreisbach, Ph.D. (SDSU).

- ✦ Interactive Effects of Noise and Reverberation on Speech Perception, Kathryn L. Pegan, 2008, Chair: Arthur Boothroyd, Ph.D. (SDSU).
- ✦ Prescribed vs. Preferred Output for a Generic Prescriptive Method in Multi-channel Hearing Aids, Stephanie Smith, 2008, Chair: Carol L. Mackersie, Ph.D. (SDSU).

2009-2010

- ✦ Bone Conduction Thresholds with and without the Placement of Insert Air-Conduction Transducers, Sierra Bower, 2009, Chair: Steve Kramer, Ph.D. (SDSU).
- ✦ Hearing Sensitivity in Patients with Human Immunodeficiency Virus (HIV), Nicole Conrad, 2009, Chair: Erika M. Zettner, Ph.D. (UCSD).
- ✦ A Comparison of ECOG and CHAMP with Physician Final Diagnosis in Patients with Suspected Cochlear Hydrops, Jerilyn N. Dutton, 2009, Chair: Erika Zettner, Ph.D. (UCSD).
- ✦ The Effects of Footwear on the Sensory Organization and Motor control Tests of Computerized Dynamic Posturography (CDP) in Young, Health Adults, Daniel Finnegan, 2009, Chair: Steve Kramer, Ph.D. (SDSU)
- ✦ Ototoxicity Monitoring of Adult Patients with Cystic Fibrosis, Aaron C. Jones, 2009, Chair: Erika M. Zettner, Ph.D. (UCSD).
- ✦ Retrospective Chart Review of Exostosis Prevalence and Surgical Procedure, John F. King, 2009, Chair: Quyen T. Nguyen, Ph.D. (UCSD).
- ✦ Distortion Product Otoacoustic Emission Amplitude Changes following a Controlled Noise Exposure, Lindsay Moneymaker, 2009, Chair: Laura Dreisbach, Ph.D. (SDSU).
- ✦ Attitudes Toward Wearing Hearing Protection in High School and College Students, Philip “Chuck” Schulz, 2009, Chair: Peter Torre III, Ph.D. (SDSU).
- ✦ Increasing the Sensitivity of Electrocochleography Using the SP / AP Area Ratio, David H. Stewart, 2009, Chair: Erika M. Zettner, Ph.D. (UCSD).
- ✦ Vestibular Evoked Myogenic Potentials in Normal Subjects, C. Colleen Benson, 2010, Chair: Erika Zettner, Ph.D. (UCSD).
- ✦ Characterization of Middle Ear Reflectance in Normal-Hearing Children, Alyssa Diersing, 2010, Chair: Laura Dreisbach, Ph.D. (SDSU).
- ✦ Retrospective Evaluation of the Champ Protocol Using Early and Late Wave V Components and the Complex Amplitude Ratio in Meniere's Patients, Natasha Fischang, 2010, Chair: Erika Zettner, Ph.D. (UCSD).
- ✦ Effect of Phosphodiesterase (PDE)-V Inhibitors on Cochlear Hair Cells and Spiral Ganglion Nerve Cells, Barbara Harris, 2010, Chair: Allen F. Ryan, Ph.D. (UCSD).
- ✦ Is a Tinnitus Seminar a Successful Treatment Modality, Caton Harris, 2010, Chair: Erik Viirre, M.D., Ph.D. (UCSD).
- ✦ A Comparison of Hearing Aid Adaptation Management Programming: Real-Ear Output and Phoneme Recognition, Shawna S. Lee, 2010, Chair: Carol Mackersie, Ph.D. (SDSU).
- ✦ A Comparison of Hearing Aid Technology for Speech Communication over the Telephone, Lindsey R. McMahan, 2010, Chair: Carol Mackersie, Ph.D. (SDSU).

- ✦ Comparison of Otoacoustic Emissions in Cigarette Smokers and Nonsmokers, Ghalia Mohder, 2010, Chair: Steve Kramer, Ph.D. (SDSU).
- ✦ Characterization of Spontaneous Otoacoustic Emissions in the Presence of Ulta High-Frequency Distortion-Product Otoacoustic Emissions in Adults, Sandra Romero, 2010, Chair: Laura Dreisbach, Ph.D. (SDSU).
- ✦ Multifrequency Tympanometry in the Evaluation of Meniere's Disease, Megan Spansail, 2010, Chair: Erika Zettner, Ph.D. (UCSD).

2011-2012

- ✦ Intratympanic Injections for Treatment of Sudden-Onset Sensorineural Hearing Loss: A Retrospective Analysis, Kristina Celani, 2011, Jeffrey Harris, M.D., Ph.D. (UCSD).
- ✦ Repeatability of High-Frequency Distortion-Product Otoacoustic Emission Thresholds in Cystic Fibrosis Patients, Margaret Chang, 2011, Chair: Laura Dreisbach, Ph.D. (SDSU).
- ✦ The Relative Sensitivity of Performance, Physiologic, and Subjective Measures of Listening Effort for a Listening Task of Multiple Levels of Difficulty, Heather Cones, 2011, Chair: Carol Mackersie, Ph.D. (SDSU).
- ✦ Effects of Oral Contraception on CHAMP in Normal Hearing Females, Abby Fox, 2011, Chair: Peter Torre III, Ph.D. (SDSU).
- ✦ Morphology of Carhart's Notch in Otosclerosis, Arineh Khachatoorians, 2011, Chair: Erika Zettner, Ph.D. (UCSD).
- ✦ Repeatability of Ultra-High Frequency Distortion-Product Otoacoustic Emission Group Delay in Adults with Cystic Fibrosis, Caitlin Meuel, 2011, Chair: Laura Dreisbach, Ph.D. (SDSU).
- ✦ Education: Improving Collaboration between the Fields of Nursing and Audiology at SDSU, Ashely Brooke Cable, 2012, Chair: Peter Torre III, Ph.D. (SDSU).
- ✦ The Effects of Speaking Rate and Noise on Performance, Subjective Work-load and Psychophysiological Measures, Natalie Calderon, 2012, Chair: Carol Mackersie, Ph.D. (SDSU).
- ✦ The Repeatability of High Frequency DPOAEs in Children, Amanda Conrad, 2012, Chair: Laura Dreisbach, Ph.D. (SDSU).
- ✦ Ocular Vestibular-Evoked Myogenic Potentials Response Variability in Normal Subjects, Jasmine Hu, 2012, Chair: Erika Zettner, Ph.D. (UCSD).
- ✦ The Effects of Increasing Awareness of Noise Exposure on One's Perception of Noise, Michael Webb, 2012, Chair: Peter Torre III, Ph.D. (SDSU).
- ✦ Neurogenic Competence of Mouse Cochlear Non-sensory Epithelial Cells, Rachel Weichert, 2012, Chair: Alain Dabdoub, Ph.D. (UCSD).

2013-2014

- ✦ Simultaneous Recordings of Auditory Brainstem Response (ABR) and Electrocochleographic Response (ECOG) Parameters and Variability in Normal Hearing Adults, Anja Arko, 2013, Chair: Steve Kramer, Ph.D. (SDSU).
- ✦ Effects of Music Listening on Strength of Contralateral Suppression of Distortion Product Otoacoustic Emissions, Amanda Ball, 2013, Chair: Peter Torre III, Ph.D. (SDSU).

- ✦ The Effects of Computer-based Auditory Training on Speech Perception by Adults with Hearing Loss, Stephanie Bigler, 2013, Chair: Arthur Boothroyd, Ph.D. (SDSU).
- ✦ Wideband Middle Ear Reflectance and Multifrequency Tympanometry in Patients with Meniere's Disease, Collyn Gallant, 2013, Chair: Laura Dreisbach, Ph.D. (SDSU).
- ✦ Objective and Subjective Measures of Listening Effort for Speech Perception in Adult Cochlear Implant Users, Stephani Gonzales, 2013, Chair: Erika Zettner, Ph.D. (UCSD).
- ✦ Auditory Object Completion and Its Role in Noise-masked Speech Perception in Normally-hearing Adults, Allison Granali, 2013, Chair: Arthur Boothroyd, Ph.D. (SDSU).
- ✦ Effects of Personal Music System Use in Quiet and in Noise on Distortion Product Otoacoustic Emissions, Lauren Harrison, 2013, Chair: Peter Torre III, Ph.D. (SDSU).
- ✦ The Effect of Competition Type and Hearing Loss on Psychophysiological Measures, Performance and Subjective Ratings of Task Load, Imola Major, 2013, Chair: Carol Mackersie, Ph.D. (SDSU).
- ✦ Hearing Preservation Following Gamma Knife Radiosurgery for Acoustic Neuroma, Robin Williams, 2013, Chair: Erika Zettner, Ph.D. (UCSD).
- ✦ Effects of Hearing Loss, Noise Level, and Unpredictable Auditory Intrusions on Sentence Recognition, Psychophysiological Reactivity, and Subjective Ratings of Task Load, Emily Wilson, 2013, Chair: Carol Mackersie, Ph.D. (SDSU).
- ✦ The Effect of Surface Modification of Titanium Substrates on Spiral Ganglion Dendrite Outgrowth, Thomas Ryan, 2013, Chair: Allen Ryan, Ph.D. (UCSD).
- ✦ Clinic Specific Normative Data for the Stacked Auditory Brainstem Response (SABR), Samantha Barbour, 2014, Chair: Erika Zettner, Ph.D. (UCSD).
- ✦ Speech Recognition Threshold Measures: A Comparison of Two Procedures, Gina Gabrielli, 2014, Chair: Erika Zettner, Ph.D. (UCSD).
- ✦ DPOAE Source Contribution in Young Children, Old Children, and Adults, Christine Gagner, 2014, Chair: Laura Dreisbach, Ph.D. (SDSU).
- ✦ The Correlation Between Peak, Trough, and Mean Values of Tobramycin and Ototoxicity in Cystic Fibrosis Patients, Elizabeth Harris, 2014, Chair: Erika Zettner, Ph.D. (UCSD).
- ✦ Characterization of Spontaneous Otoacoustic Emissions in Children with High-Frequency Distortion Product Otoacoustic Emissions, Talya Jacob (Zell), 2014, Chair: Steve Kramer, Ph.D. (SDSU).
- ✦ Repeatability and Feasibility of Individualized Distortion Product Otoacoustic Emission Growth Functions, Hang Lam, 2014, Chair: Erika Zettner, Ph.D. (UCSD).
- ✦ Repeatability of High-Frequency Behavioral and DPOAE Measures in Normal-Hearing Children, Shelli Newman, 2014, Chair: Laura Dreisbach, Ph.D. (SDSU).
- ✦ Physiological Reactivity and Subjective Workload/Stress During Speech Recognition Tasks in Single-source and Spatially-Distributed Noise, Ashley Page, 2014, Chair: Carol Mackersie, Ph.D. (SDSU).

2015-2016

- ✦ Early Indication of Noise Induced Hearing Loss in Young Adult Users of Personal Listening Devices, Carol Chou, 2015, Chair: Quyen Nguyen, M.D., Ph.D. (UCSD).
- ✦ Speech Audiometry Results in HIV+ and HIV- Adults, Julia Coats, 2015, Chair: Peter Torre III, Ph.D. (SDSU).
- ✦ Effects of Caffeine on Distortion Product Otoacoustic Emissions, William Huson, 2015, Chair: Steve Kramer, Ph.D. (SDSU).
- ✦ Wideband Middle Ear Reflectance and Multifrequency Tympanometry in Normal Hearing Young Adults, Kelsey Janet, 2015, Chair: Steve Kramer, Ph.D. (SDSU).
- ✦ Short-term Repeatability of Tinnitus Assessment Characteristics in Participants Asked to Feign, Steve Liu, 2015, Chair: Steve Kramer, Ph.D. (SDSU).
- ✦ Determining Racial Differences in Audiologic Measurements Using an Advanced Calibration Method, Michelle Louie, 2015, Chair: Laura Dreisbach, Ph.D. (SDSU).
- ✦ iFrequency: Testing High Frequency Hearing Using an iPhone Application and Apple Ear Pods, Leah Martin, 2015, Chair: Erika Zettner, Ph.D. (UCSD).
- ✦ Feasibility of Recording oVEMP Using a Horizontal Surface-Recording Electrode Montage, Laura Rhee, 2015, Chair: Steve Kramer, Ph.D. (SDSU).
- ✦ Factors Associated with Ototoxicity in Cystic Fibrosis Patients Treated With Tobramycin, Suzanne Rotan, 2015, Chair: Erika Zettner, Ph.D. (UCSD).
- ✦ Relations Between Domain-Specific Sound Tolerance and Executive Function, Stephanie Baxter, 2016, Chair: Carol Mackersie, Ph.D. (SDSU).
- ✦ Refining Drug Delivery to the Middle Ear: Examination of a Natural Cellular Mechanism, Kerry Beasley, 2016, Allen Ryan, Ph.D. (UCSD).
- ✦ Noise Level Measurements and National City Residents' Attitudes Towards that Noise, Kelly Brennan, 2016, Chair: Peter Torre III, Ph.D. (SDSU).
- ✦ The Role of JNK Isoforms in Noise-Induced Hearing Loss and Cochlear Damage, Joseph Hardeman, 2016, Chair: Allen Ryan, Ph.D. (UCSD).
- ✦ Effects of Platinum Chemotherapy Across Treatment on Behavioral and Physiological Sensitive Range for Ototoxicity, Melissa Ho, 2016, Chair: Laura Dreisbach, Ph.D. (SDSU).
- ✦ The Effects of Noise Types on Subjective Ratings of Acceptance of Background Noise, Megan Lane, 2016, Chair: Carol Mackersie, Ph.D. (SDSU).
- ✦ Objective Characterization of Tinnitus Utilizing Pitch Matched Acoustic State Response, Steve Liu, 2016, Chair: Steve Kramer, Ph.D. (SDSU).
- ✦ Towards a Clinically Viable Measure of Sentence Context Usage, Charles Ruby, 2016, Chair: Arthur Boothroyd, Ph.D. (SDSU).
- ✦ Characterization and Repeatability of Middle Ear Reflectance in Children Young and Old, Joseph Yang, 2016, Chair: Laura Dreisbach, Ph.D. (SDSU).

2017-2018

- ✦ Reverberation Preferences of Cochlear Implant Users and Normal Hearing Listeners in Popular Music, Ashley Chwastyk, 2017, Chair: Steve Kramer, Ph.D. (SDSU).
- ✦ DPOAE Source Contribution - Repeatability in Young Children and Old Children, Karolina Crawford, 2017, Chair: Laura Dreisbach, Ph.D. (SDSU).
- ✦ The Effects of Social Evaluation and Task Demand on Performance and Indices of Communication-Related Stress, Lucia Kearney, 2017, Chair: Carol Mackersie, Ph.D. (SDSU).
- ✦ Audiometric Threshold Changes in Adults with Cystic Fibrosis, Kaitlin Leggins, 2017, Chair: Erika Zettner, Ph.D. (UCSD).
- ✦ Prevalence of Balance Disorders in a Cystic Fibrosis Patient Population using Bedside Balance Assessment and Questionnaires, David Nguyen, 2017, Erika Zettner, Ph.D. (UCSD).
- ✦ Benefits of Directional Microphones for Understanding Speech in Noise in Cochlear Implant Users, Stacey Ochoa-Armas, 2017, Chair: Erika Zettner, Ph.D. (UCSD).
- ✦ Lowest Acceptable Speech-Perception Performance Level, Allison Schauer, 2017, Chair: Arthur Boothroyd, Ph.D. (SDSU).
- ✦ Effectiveness of Earplug Use in Young Adults, Heather Stenger, 2017, Chair: Peter Torre III, Ph.D. (SDSU).
- ✦ Audiometric Impact on ALD Adoption & Satisfaction with Older Adults, Anish Thakkar, 2017, Chair: Erika Zettner, Ph.D. (UCSD).
- ✦ Repeatability of Distortion product Otoacoustic Emission Group Delay in Children, Joyce Tsang, 2017, Chair: Laura Dreisbach, Ph.D. (SDSU).
- ✦ Behavioral Audiometric Thresholds and Distortion Product Otoacoustic Emissions in the Ultra-High Frequency Range, Charles Bishop, 2018, Chair: Laura Dreisbach, Ph.D. (SDSU).
- ✦ Speech in Noise Performance in Dancers and Non-Dancers, Kendall Caminiti, 2018, Chair: Peter Torre III, Ph.D. (SDSU).
- ✦ Word-In-Noise Test Performance in Perinatally HIV-Infected and HIV-Exposed but Uninfected Young Adults, Alyssa Cook, 2018, Chair: Peter Torre III, Ph.D. (SDSU).
- ✦ Accuracy of Automated and Self-Estimated Pure-Tone Thresholds Relative to Conventional Audiometry, Mark Datuin, 2018, Chair: Carol Mackersie, Ph.D. (SDSU).
- ✦ The Effects of Music Exposure on Distortion-Product Otoacoustic Emissions, Brennan Hefner, 2018, Chair: Peter Torre III, Ph.D. (SDSU).
- ✦ Descriptive Analysis of Tinnitus with Normal Hearing and Hearing Loss, Christopher Johnson, 2018, Chair: Erika Zettner, Ph.D. (UCSD).
- ✦ Development of a Spanish Version of the Computer-Assisted Speech Perception Assessment (CAPSA) Test, Lidia Romero, 2018, Chair: Carol Mackersie, Ph.D. (SDSU).
- ✦ The Role of ECRG4 in Early-Onset Hearing Loss and Noise-Induced Cochlear Damage, Lauren Rynders, 2018, Chair: Allen Ryan, Ph.D. (UCSD).
- ✦ High-Frequency Evoked Otoacoustic Emissions in Newborns, Rachel Smith, 2018, Chair: Laura Dreisbach, Ph.D. (SDSU).

2019-2020 (THROUGH MAY 2020)

- ✦ Marijuana Use as a Risk Factor for Hearing in Young Adults, Mallery Eppler, 2019, Chair: Peter Torre III, Ph.D. (SDSU).
- ✦ Speech Recognition in Varying Levels of Noise: Talker/Recording effects, Allison Hong, 2019, Chair: Arthur Boothroyd, Ph.D. (SDSU).
- ✦ Individual Differences in Noise Tolerance domains: Associations with personality, Noise Sensitivity, and Cardiac Responses to Noise, Kayden Kim, 2019, Chair: Carol Mackersie, Ph.D. (SDSU).
- ✦ A Comparison of Self-Adjusted Amplification Settings vs. Current Hearing-aid Settings of Experienced Hearing-Aid Users, Alexandra Lithgow, 2019, Chair: Carol Mackersie, Ph.D. (SDSU).
- ✦ List Equivalency of HINT Materials using the R-SPACE, Katrina Luong, 2019, Chair: Steve Kramer, Ph.D. (SDSU).
- ✦ Sensitivity of Different Otoacoustic Emission Paradigms for Monitoring Ototoxicity in Patients Receiving Platinum Agents as Treatment, Brittany Vlosich, 2019, Chair: Laura Dreisbach, Ph.D. (SDSU).
- ✦ Lowest Acceptable Performance Level: Low-Pass Filtered Speech, Jelene Wong, 2019, Chair: Arthur Boothroyd, Ph.D. (SDSU).
- ✦ Role of Pinocytosis in the Action of Neurotrophins on Spiral Ganglion Dendrite Growth, Shannon Doolittle, 2020, Chair: Allen Ryan, Ph.D. (UCSD).
- ✦ Preferred speech spectrum and its dependence on overall level change, Jason Duda, 2020, Chair: Arthur Boothroyd, Ph.D. (SDSU).
- ✦ CE Chirp Effects on ABR Components in those with and Without Meniere's Disease, Nicholas Faillace, 2020, Chair: Laura Dreisbach, Ph.D. (SDSU).
- ✦ A Self-Administered Consonant Contrast Test: Development, Effects of Low Pass Filtering and Form-Equivalence, Gregory Hobbs, 2020, Chair: Arthur Boothroyd, Ph.D. (SDSU).
- ✦ Headphone Type as Indicative of Risk Factors for Hearing in Young Adults, John Parsons, 2020, Chair: Peter Torre III, Ph.D. (SDSU).
- ✦ Comparison of Benefit Achieved by Noise Reduction Strategies in Cochlear Implants Using 4-and 20-Talker Babble Noise, Alex Reiser, 2020, Chair: Erika Zettner, Ph.D. (UCSD).
- ✦ Comparative Benefits of Directional Microphone Settings to Cochlear Implant Users for Understanding Speech in Noise, Ellen Smith, 2020, Chair: Erika Zettner, Ph.D. (UCSD).
- ✦ Relations Between Resting Heart-Rate Variability and Measures of Self-Esteem in Adults with Hearing Loss, Brittany Thrall, 2020, Chair: Carol Mackersie, Ph.D. (SDSU).