

Amanda Maulden

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Research Interests:

Animal psychoacoustics to quantify perceptual changes resulting from noise induced hearing loss.

Education:

B. Sc. in Animal Science: Bioscience
Purdue University, West Lafayette, IN

May 2015

Research Experience:

Spring 2015-Present

Animal behavior research assistant/lab technician, Purdue University, Department of Speech, Language, and Hearing Sciences (SLHS)

Supervisor: Dr. Michael Heinz (mheinze@purdue.edu)

- Design and conduct animal psychoacoustics studies
- Supervise undergraduate research assistants
- Help manage general lab duties
- Monitor health of chinchillas post-surgery and/or noise exposure

Fall 2013- Spring 2015

Undergraduate research assistant, Purdue University, Department of SLHS

Supervisor: Dr. Michael Heinz (mheinze@purdue.edu)

- Assist graduate student and postdoc with animal psychoacoustics studies
- Monitored health of animals post-surgery and/or noise exposure
- Conduct animal behavioral tasks daily

Spring 2011-Fall 2014

Student animal caretaker, Purdue University, Department of Biology and Department of Psychology

Direct Supervisor: Cindy Sanow (csanow@purdue.edu)

Overall Supervisor: Sylvia Schlegel (sschlege@purdue.edu)

- Charted daily room temperatures/humidity and animal counts
- Skills in proper harem set up
- Experience of working under emergency situations
- Acquired knowledge among different lab animal species

Book Chapter:

1. Trevino, M., Lobarinas, E., **Maulden, A.** and Heinz, M. (2019). The chinchilla animal model for hearing science and noise-induced hearing loss. *The Journal of the Acoustical Society of America*, [online] 146(5), pp.3710-3732. Available at: <https://asa.scitation.org/doi/full/10.1121/1.5132950> [Accessed 12 Dec. 2019].

Conference Abstracts:

1. **Maulden, A.C.**, Walls, M.K., Sayles, M., and Heinz, M.G. (November 2018) "Comparison of Psychometric and Neurometric Amplitude-Modulation Detection Thresholds in Normal-Hearing Chinchillas," Sensorium 2018 - Symposium of Sensory Biology and Ecology, West Lafayette, IN.
2. **Maulden, A.C.**, Walls, M.K., Muthaiah, V., and Heinz, M.G. (February 2018) "The effects of cochlear synaptopathy on chinchilla amplitude-modulation detection thresholds," Assoc. for Res. in Otolaryngology Abstracts (ARO), San Diego, CA.
3. **Maulden, A.C.**, Walls, M.K., and Heinz, M.G. (June 2017) "Psychometric amplitude-modulation detection thresholds in chinchillas before and after moderate noise exposure," Acoustical Society of America (ASA), Boston, MA.

4. **Maulden, A.C.**, Walls, M.K., Sayles, M., and Heinz, M.G. (February 2017) “Comparison of Psychometric and Neurometric Amplitude-Modulation Detection Thresholds in Normal-Hearing Chinchillas,” Assoc. for Res. in Otolaryngology Abstracts (ARO), Baltimore, MD.
5. Hickox, A.E., Carbajal, S., Walls, M.K., **Maulden, A.C.**, Verble, K.M., Liberman, M.C. and Heinz, M.G. (February 2015) “Evaluating Neurophysiological Changes and Perceptual Deficits Following Acoustic Overexposure,” Assoc. for Res. in Otolaryngology Abstracts (ARO), Baltimore, MD.

Academic Seminar:

1. **Maulden, A.C.** “Comparison of Psychometric and Neurometric Amplitude-Modulation Detection Thresholds in Normal-Hearing Chinchillas,” Department of Speech, Language, and Hearing Sciences, Purdue University, February, 2017.

Conference Talks:

1. **Maulden, A.C.**, (November 2018) “Comparison of Psychometric and Neurometric Amplitude-Modulation Detection Thresholds in Normal-Hearing Chinchillas,” Sensorium 2018 - Symposium of Sensory Biology and Ecology, West Lafayette, IN.

Awards:

2017 Professional Development APSAC grant

Accomplishments:

2011 Animal Care Qualification number: Mau-123

Supervision, animal behavior undergraduate research

Kelton Verble	Fall 2015- Spring 2016	FRN (wildlife)
Bridget Craft	Summer 2016	ANSC (animal science)
Taylor Springer	Fall 2016- Spring 2017	ANSC
Rose Reyling	Fall 2016-February 2019	SLHS
Carissa Baughman-Anderson	Spring 2018-December 2018	BIO
Amy Clark	Spring 2018-current	ANSC
Hannah Chua	Fall 2019-Spring 2020	SLHS

References:

Dr. Ann Hickox (post doc I worked under 2013)

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Boston, MA 02132

Email: aehickox@alum.mit.edu

Cindy Sanow (former supervisor)

Heine Pharmacy Building, Room 240

575 Stadium Drive West Lafayette, IN 47907

Email: sanow@purdue.edu

Dr. Keith Kluender (Former Head of SLHS department/professor)

Lyles-Porter Hall

715 Clinic Drive West Lafayette, IN 47907

Email: kkluender@purdue.edu

Dr. Michael Heinz (PI, current supervisor)

Lyles-Porter Hall, Room 3064

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