

# Nicole E. Sieck, Au.D., CCC-A

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## **EDUCATION**

- Dec 2025**      **University of Maryland**, College Park MD  
Doctor of Philosophy, Environmental Health Sciences  
Specialization in Environmental Epidemiology  
School of Public Health  
*Dissertation:* National Assessment of Heat Exposure and Adverse Health Outcomes in Patients with End-Stage Kidney Disease.  
*Advisor:* Amir Sapkota, Ph.D.
- Dec 2016**      **The University of Texas at Austin**, Austin TX  
Doctor of Audiology (Au.D.), Communication Sciences and Disorders  
College of Communication
- May 2013**      **Arizona State University**, Tempe AZ  
Bachelor of Science in Speech and Hearing Science, Minor in Communication  
College of Liberal Arts and Sciences  
Barrett, The Honors College  
*Summa Cum Laude*

## **RESEARCH EXPERIENCE**

- 2023-Present**      **Graduate Research Assistant**, University of Maryland  
Advisor: Dr. Amir Sapkota  
Project: Extreme heat and wildfire smoke exposure and associated health outcomes in patients with kidney failure; grant writing and proposal development experience; R programming, GIS
- 2020-2022**      **Graduate Assistant**, University of Maryland  
Advisor: Drs. Devon Payne-Sturges & Robin Puett  
Projects: Scoping review on interventions to reduce exposure to bisphenols and phthalates; health effects of PM2.5 in patients with sickle cell disease; SAS programming
- 2016-2017**      **Research Audiologist and Audiology Extern**, Medical University of South Carolina  
Advisors: Dr. Judy Dubno, Lois Matthews  
Project: Defining phenotypes of age-related hearing loss; collected primary data on participant auditory function using a variety of clinical measures for the longitudinal study; Matlab, Microsoft Access
- 2016**      **Audiology Capstone Project**, The University of Texas at Austin  
Advisor: Dr. Craig Champlin  
Project: Chirp-evoked auditory brainstem response recorded with high-pass masking noise; SPSS software

2013

**Honors Thesis**, Arizona State University

Advisor: Dr. William Yost

Project: Two-sentence recognition with a pulse train vocoder

## **PUBLICATIONS**

1. Song H, Liang M, **Sieck N**, Huang L, He X, Nguyen Q, Raimann J, Maddux FW, Ellicott EA, Liang X-Z, Kotanko P, Sapkota A. (2024). Impact of 2023 Canadian wildfire smoke on hospitalization and mortality among hemodialysis patients in the US. *Under review*.
2. **Sieck NE**, Bruning M, van Woerden I, Whisner C & Payne-Sturges, DC. (2024). Effects of interventions in reducing exposure to bisphenols and phthalates: A scoping review. *Environmental Health Perspectives*. doi: 10.1289/EHP11760.
3. **Sieck NE**, Rasetshwane DM, Kopun JG, Jesteadt W, Gorga MP & Neely ST. (2016). Multi-tone suppression of distortion-product otoacoustic emissions in humans. *Journal of the Acoustical Society of America*, 139(5), 2299-2309. doi: 10.1121/1.4946989.

## **Under Review**

4. Song H, Liang M, **Sieck NE**, Huang L, He X, Nguyen Q, Raimann J, Maddux FW, Ellicott EA, Liang X-Z, Kotanko P, Sapkota A. (2025). Impact of 2023 Canadian wildfire smoke on hospitalization and mortality among hemodialysis patients in the US.

## **PRESENTATIONS & INVITED TALKS**

### **Poster Presentations:**

1. Aryal S, He H, Liang M, Ellicott E, **Sieck NE**, Raimann J, Usvyat L, Kotanko P, Sapkota A. (2025). Spatiotemporal distribution of wildfire exposure in dialysis clinics (2010-2024). *International Society for Environmental Epidemiology 2025 Annual Meeting*. Atlanta, Georgia, USA.
2. **Sieck NE**, Song H, Raimann JG, Kotanko P, Maddux FW, He H & Sapkota A. (2023) Risk of hospitalization and mortality following extreme heat events in patients undergoing in-center hemodialysis in the Western United States. *Kidney Week 2023 Annual Meeting of the American Society of Nephrology*. Philadelphia, PA, USA.
3. **Sieck NE**, Song H, He H, Maddux FW, Raimann JG, Kotanko P & Sapkota A. (2023). Extreme heat exposure and risk of hospitalization and mortality in hemodialysis patients in the conterminous United States. *International Society for Environmental Epidemiology 2023 Annual Meeting*. Kaohsiung, Taiwan.
4. Song H, **Sieck NE**, He H, Ellicott E, Maddux FW, Raimann JG, Kotanko P & Sapkota A. (2023). Impact of Extreme Heat Event and Wildfire-Related PM2.5 Exposure on the Risk of Hospitalization and Mortality among Hemodialysis Patients. *International Society for Environmental Epidemiology 2023 Annual Meeting*. Kaohsiung, Taiwan.
5. Budd KB, Crnosija N, Hall J, Morgado M, Sanchez G, **Sieck N**, Vallejo J & Kadry A-R. (2021). Assessment of Human Health Risk Associated with Excessive Application of Cleaning and Disinfectant Products in Response to the COVID-19 Pandemic. *Society for Risk Analysis 2021 Annual Meeting*. \*Received merit award from the Society of Risk Analysis
6. **Sieck NE**, Rigterink E, Yanosky JD, Wen T, Ezeugoh R, Crnosija N & Puett R. (2020). Sick Cell Disease-Related Hospital Admissions and Socio-Environmental Demographics. *International Society for Environmental Epidemiology Annual Conference*. Online.
7. Ezeugoh R, Rigterink E., Yanosky JD, Crnosija N, **Sieck N**, Wen T & Puett R. (2020). Sick Cell Disease-Related Hospital Admissions and Acute Particulate Matter 2.5 Exposure. *International Society for Environmental Epidemiology Annual Conference*. Online.

8. Crnosija N, Rigterink E, Yanosky JD, **Sieck N**, Ezeugoh R, Wen T & Puett R. (2020). Sick Cell Disease-Related Hospital Admissions and Ambient Temperature. *International Society for Environmental Epidemiology Annual Conference*. Online.
9. **Sieck NE**, Rasetshwane DM, Kopun JG, Jesteadt W, Gorga MP & Neely ST. (2016). Multi-tone suppression of distortion-product otoacoustic emissions in humans. *American Auditory Society Annual Conference*. Scottsdale, AZ, USA.
10. **Stanley NE** and Yost, WA. (2013). Two sentence recognition with a pulse train vocoder. *Arizona State University Awards Ceremony and Research Poster Session*. Tempe, AZ, USA.
11. **Stanley NE**, Brown CA & Bacon SP. (2012). The effect of fundamental frequency variation on speech intelligibility in simulated electric-acoustic stimulation *Arizona State University Awards Ceremony and Research Poster Session*. Tempe, AZ, USA.

#### **Oral Presentations:**

1. Song H, **Sieck NE**, Raimann JG, Kotanko P, Maddux FW, Ellicott EA & Sapkota A. (2023). Exposure to wildfire-related particulate matter and risk of hospitalization and mortality among hemodialysis patients. *Kidney Week 2023 Annual Meeting of the American Society of Nephrology*. Philadelphia, PA.

#### **Invited Talks:**

1. **Sieck NE**. (2016). Multi-tone suppression of distortion-product otoacoustic emissions in humans. *Hearing Science Interest Group*, Medical University of South Carolina. Charleston, SC, USA.
2. **Sieck NE**. (2016). Otoacoustic emissions tutorial. *Texas Acoustics Seminar*, The University of Texas at Austin. Austin, TX, USA.

#### **Other:**

1. *An Election Guide from the University of Maryland Council on Family Relations and Maryland Family Policy Impact Seminar*. (2022). Azizi Z, Cho S, Ezra P, Johnson J, Lusane J, McCormick AP, Moore-Solórzano J, Moran SA, Morocho EI, Obioha CU, Shan S, Shasha B, **Sieck NE**. Dept. of Family Science, School of Public Health, University of Maryland.  
<https://sph.umd.edu/news/departments-family-science-creates-voter-guide-family-issues>

### **TEACHING EXPERIENCE**

<b>2019-2023</b>	<b>Introduction to Environmental Health (MIEH300)</b> – Graduate Teaching Assistant (8 semesters, including summer sessions); Instructed the laboratory component of the course, graded assignments and exams, held office hours, redesigned course with professor during COVID-19 lockdown
<b>2021-2022</b>	<b>Personal and Community Health (HLTH140)</b> – Guest lecturer (3 semesters)

### **FELLOWSHIPS, AWARDS, AND HONORS**

<b>2024</b>	<b>Dean's Scholar Award</b> , University of Maryland Award from the Dean of the School of Public Health in recognition of academic achievement and contributions to School of Public Health community
<b>2024</b>	<b>Delta Omega, Gamma Zeta Chapter</b> , University of Maryland Nominated and inducted into national public health honors society

<b>2023</b>	<b>Ann G. Wylie Dissertation Fellowship</b> , University of Maryland Full-time support for one semester to advance dissertation
<b>2023</b>	<b>Goldhaber Travel Award</b> , University of Maryland Award to cover costs of conference travel, use to attend Kidney Week
<b>2023</b>	<b>International Society for Environmental Epidemiology Travel Award</b> Covered registration and \$1500 in travel expenses to Kaohsiung, Taiwan
<b>2023</b>	<b>Wait Family Endowed Scholarship</b> , University of Maryland Merit award for research related to environmental health
<b>2021</b>	<b>National Science Foundation Research Traineeship (NRT) Fellow</b> UMD Global STEWARDS (STEM Training at the Nexus of Energy, Water Reuse and Food Systems)
<b>2020</b>	<b>International Society for Environmental Epidemiology Travel Award</b> Covered registration (virtual conference)
<b>2019</b>	<b>Dean's Fellowship</b> , University of Maryland Recruitment award
<b>2016</b>	<b>Frederick N. Martin Scholarship</b> , The University of Texas at Austin Merit award
<b>2015</b>	<b>NIH T35 Short Term Research Traineeship</b> Boys Town National Research Hospital, Omaha NE
<b>2015</b>	<b>Student Academy of Audiology Conference Scholarship</b> Covered registration costs for American Academy of Audiology conference
<b>2014</b>	<b>Sertoma Communication Disorders Scholarship</b> The University of Texas at Austin
<b>2013-2016</b>	<b>Pic Wagner Endowed Graduate Fellowship</b> , The University of Texas at Austin; Recruitment award
<b>2011</b>	<b>National Student Speech-Language-Hearing Association Scholarship</b> Travel Award, American Speech-Language-Hearing Association
<b>2009-2013</b>	<b>Provost Scholarship</b> , Arizona State University Recruitment award, funding for 4 years
<b>2009-2013</b>	<b>Dean's List</b> , Arizona State University Merit award, received all semesters

#### **SERVICE AND PROFESSIONAL MEMBERSHIPS**

<b>2023-Present</b>	<b>Committee for a Better Environment</b> Member, board that advises the Mayor and Council of the City of College Park on environmental issues
<b>2023-Present</b>	<b>American Society of Nephrology</b> Student Member
<b>2023-2024</b>	<b>Provost's Graduate Student Advisory Council</b> Graduate student representative, nominated for the School of Public Health

<b>2023-2024</b>	<b>School of Public Health Graduate Student Ambassador</b> PhD student representative for Environmental Health Sciences
<b>2022-2024</b>	<b>School of Public Health Research Committee</b> Graduate Student Representative, University of Maryland
<b>2023</b>	<b>Maryland Institute for Applied Environmental Health Director Search</b> Graduate student representative on search and interview committee for institute director
<b>2022-2023</b>	<b>School of Public Health Graduate Advisory Council</b> Member, University of Maryland
<b>2020-Present</b>	<b>International Society for Environmental Epidemiology</b> Student Member
<b>2017-Present</b>	<b>American Speech Language Hearing Association</b> Member, National clinical certification in audiology
<b>2017-Present</b>	<b>State of Virginia Audiology License</b>
<b>2015-2019</b>	<b>American Auditory Society</b> Member
<b>2014-2016</b>	<b>Acoustical Society of America Student Chapter</b> Secretary, The University of Texas at Austin
<b>2014-2016</b>	<b>Student Academy of Audiology</b> Vice President (2015-2016), Secretary (2014-2015), The University of Texas at Austin

## **CLINICAL EXPERIENCE**

<b>2016-2017</b>	<b>Medical University of South Carolina</b> Supervisor: Lois Matthews, M.S., CCC-A Adult diagnostics, research audiology
<b>2021-2022</b>	<b>Dell Children's Hospital</b> Supervisor: Michelle Pho, Ph.D., Au.D., CCC-A Pediatric diagnostics
<b>2015</b>	<b>The Listening Center of Austin</b> Supervisor: Amy Gensler, M.A., CCC-A Cochlear implants, Auditory-Verbal Therapy
<b>2015</b>	<b>Austin ENT</b> Supervisor: Sangeeta Kamdar, Au.D., CCC-A Adult diagnostics, hearing aids
<b>2015</b>	<b>Teleaudiology, University of Texas at Austin Clinic</b> Supervisor: Amanda Zappler, Ph.D., CCC-A Remote hearing aid programming
<b>2014</b>	<b>Austin Regional Clinic</b> Supervisor: Angel de la Cruz, Au.D., CCC-A Adult diagnostics, hearing aids
<b>2014</b>	<b>The University of Texas at Austin Speech and Hearing Center</b> Supervisors: Joan Balash, M.A., CCC-A & Angela Carey, Au.D., CCC-A Adult diagnostics and hearing aids, pediatric auditory processing testing

**2014**

**Preschool Screening Team**

Screened hearing, vision and speech/language in preschool-aged children

Certified screened through 2017