# Julia Campbell, PhD, AuD, CCC-A, F-AAA

### Contact

Julia.Campbell@Austin.UTexas.EDU

https://csd.utexas.edu/faculty/julia-campbell

https://csd.utexas.edu/research/central-sensory-processes-lab

303.517.0395

**Current Position** 

August 2015-Present Assistant Professor

Department of Communication Sciences and Disorders

University of Texas at Austin

Principal Investigator

Central Sensory Processes Laboratory

University of Texas at Austin

Education

May 2015 Combined Triple PhD

Speech, Language, and Hearing Sciences

Behavioral Neuroscience Cognitive Neuroscience

University of Colorado at Boulder

December 2009 Clinical Doctorate of Audiology (AuD)

Speech, Language, and Hearing Sciences

University of Colorado at Boulder

May 2005 Bachelor of Arts (BA)

Psychology

University of Colorado at Boulder

Research Experience

2009-2015 Laboratory Manager

PI: Dr. Anu Sharma

Brain and Behavior Laboratory University of Colorado at Boulder 2007-2015 Research Assistant/Research Audiologist

Brain and Behavior Laboratory

PI: Dr. Anu Sharma

University of Colorado at Boulder

## Clinical Experience

2015-Present Audiologist Licensure (State of Texas)

2010-Present Certification of Clinical Competence (CCC-A)

**ASHA** 

2008-2009 Audiology Graduate Externship

University of Colorado at Denver Health Sciences Center

and Hospital

# Extramural Research Funding (On-going)

The clinical utility of a novel electronic tattoo sensor in recording cervical vestibular myogenic evoked potentials. President's Award, Texas Speech-Language-Hearing Association. Pl. Julia Campbell.

Amount: \$1,300

Award Period: 3/2019-2/2020

## Extramural Research Funding (Completed)

Auditory gating in tinnitus. Hearing Health Foundation and Les Paul

Foundation. PI: Julia Campbell.

Amount: \$29,988

Award Period: 7/2016-12/2017

Auditory gating in tinnitus. Lear Ashmore Research Endowment Fund, Texas

Speech-Language-Hearing Foundation. PI: Julia Campbell.

Amount: \$1,500

Award Period: 3/2016-7/2017

Cross-modal re-organization in children with cochlear implants. F-31 Ruth L.

Kirchstein NRSA, National Institute on Deafness and Other

Communication Disorders (National Institutes of Health). Sponsor: Anu Sharma, PhD, Co-Sponsor: Teresa Mitchell, PhD, PI: Julia Campbell, AuD.

Amount: \$32,784

Award Period: 2012-2014

# Intramural Research Funding (Completed)

Development and function of the central auditory and visual systems

University of Texas at Austin Special Research Grant. Pl: Julia Campbell.

Amount: \$750

Award Period: 11/2018-8/2019

Auditory gating in tinnitus. University of Texas at Austin Summer Research

Grant. PI: Julia Campbell.

Amount: \$9,000

Award Period: 6/2017-7/2017

Visual evoked potential patterns and the development of visual learning.

University of Texas at Austin Special Research Grant. Pl: Julia Campbell.

Amount: \$750

Award Period: 11/2015-8/2016

Visual evoked potential patterns and the development of visual learning.

University of Texas at Austin Moody College of Communication Grant

Preparation Award. PI: Julia Campbell.

Amount: \$6,000

Award Period: 11/2015-8/2016

### Awards and Honors

James and Susan Jerger Award nomination for mentored graduate student (AuD) research poster: LaBrec, A., **Campbell, J.**, & Potter, S. Visual cross-modal distractibility in high-frequency tinnitus. Poster session at the annual American Academy of Audiology, Columbus, OH. Spring 2019.

- First place mentored graduate student (AuD) research poster: Bean, C., Campbell, J., & Nielsen, M. Tinnitus and normal hearing: A proposed clinical battery. Poster session at the annual Texas Association of Audiology, Houston, TX. Fall, 2018.
- Third place mentored graduate student (AuD) research poster: LaBrec, A., Campbell, J., & Potter, S. Visual cross-modal distractibility in high-frequency tinnitus. Poster session at the annual Texas Association of Audiology, Houston, TX. Fall 2018.
- National Institute on Deafness and Other Communication Disorders (National Institutes of Health) Clinical Loan Repayment Program. Amount: \$70,000 Award Period: 10/2017-10/2019
- Moody College of Communication Undergraduate Learning Assistant (ULA) Pilot Program Faculty Member, *CSD 341: Principles of Audiology*, Fall 2017.

- Top 25% Most Cited PLoS Research Article in 2016: **Campbell, J.**, & Sharma, A. (2016). *Visual cross-modal re-organization in children with cochlear implants*. PLoS ONE, 11(1): e0147793.
- ASHA Meritorious Poster Award for Glick, H., **Campbell, J.**, Sharma, A., Zeitler, D., Torres, J., & Dorman, M. *Cortical neuroplasticity in adults and children with single-sided deafness*. Poster session at the annual American Speech-Language-Hearing Association conference, Denver, CO. Fall 2015.
- University of Colorado at Boulder Speech, Language, and Hearing Sciences
  Department Outstanding Doctoral Research Award, Spring 2013.
- Resident and Graduate Student Poster Session Award, American Auditory Society (This funding is provided through the National Institute of Deafness and Other Communication Disorders). Annual meeting of The American Auditory Society, Scottsdale, AZ, Spring 2012.

  Amount: Conference registration, food, travel, airfare
- American Academy of Audiology/American Academy of Audiology Foundation Research Grants Program, Student Investigator Research Grant, 2012. Amount: \$4,970
- First Recipient of Council of Academic Programs for Communication Sciences & Disorders (CAPCSD) Plural Publishing Doctoral Research Award, 2011.

  Amount: \$2,000
- American Speech Language Hearing Association (ASHA) Foundation New Century Scholars Award, 2010.

  Amount: \$10,000

#### Peer-Reviewed Publications

- \*Denotes mentored graduate student authors
- +Denotes mentored undergraduate student authors
- Campbell, J., +Nielsen, M., \*LaBrec, A., & \*Bean, C. (2019). Stimulus specific cortical visual evoked potential morphological patterns, Journal of Visualized Experiments, (147): e59146.
- Campbell, J., \*LaBrec, A., \*Bean, C., +Nielsen, M., & \*So, W. (2019).

  Auditory Gating and extended high-frequency thresholds in normal hearing adults with minimal tinnitus. American Journal of Audiology, 28(1S): 209-224.
- **Campbell, J.**, \*Bean, C., & \*LaBrec, A. (2018). Normal hearing young adults with mild tinnitus: Reduced inhibition as measured through sensory gating.

  Audiology Research, 8:214: 27-33.

- **Campbell, J.**, & Sharma, A. (2016). Distinct visual evoked potential morphological patterns for apparent motion processing in school-aged children. Frontiers in Human Neuroscience, 10(277): 1-14.
- **Campbell, J.**, & Sharma, A. (2016). *Visual cross-modal re-organization in children with cochlear implants.* PLoS ONE, 11(1): e0147793.
- Sharma, A., \*Glick, H., **Campbell, J.**, Torres, J., Dorman, M., & Heitler, D. (2016). Cortical plasticity and re-organization in pediatric single-sided deafness pre- and post- cochlear implantation: A case study. Otology and Neurotology, 37(2): e26-e34.
- Sharma, A., Campbell, J., & Cardon, G. (2015). Developmental and compensatory plasticity in deafness: evidence from the P1 and N1 Cortical Auditory Evoked Potential in cochlear implanted children. International Journal of Psychophysiology, 95(2): 135-144.
- **Campbell, J.**, & Sharma, A. (2014). *Cross-modal re-organization in adults with early stage hearing loss.* PLoS ONE, 9(2): e90594.
- **Campbell, J.**, & Sharma, A. (2013). *Compensatory cortical re-organization in adults with hearing loss.* Frontiers in Systems Neuroscience, 7:71.
- Sharma, A., Glick, H., **Campbell, J.**, & Biever, A. (2013). *Central auditory development in children with hearing loss: Clinical relevance of the P1 CAEP biomarker in children with multiple disabilities*. Hearing, Balance, and Communication, 11(3): 1-11.
- Cardon, G., **Campbell, J.**, & Sharma, A. (2012). *Plasticity in the developing auditory brain: evidence from children with sensorineural hearing loss and auditory neuropathy spectrum disorder*. Journal of the American Academy of Audiology, 23(6):396-411.
- **Campbell, J.**, Cardon, G., & Sharma, A. (2011). Clinical application of the cortical auditory evoked potential P1 biomarker in children with sensorineural hearing loss and auditory neuropathy spectrum disorder. Seminars in Hearing, 32:147-155.
- Sharma, A. & Campbell, J. (2011). A sensitive period for cochlear implantation in deaf children. The Journal of Maternal-Fetal & Neonatal Medicine. 24:151-153.
- Roland, P., Bauer, P., Booth, T., Martin, K., **Campbell, J.**, & Sharma, A. (2011). Assessment of cochlear implant candidacy in patients with cochlear nerve deficiency using the P1 CAEP biomarker. Cochlear Implants International, 12(2):1-9.

King, K., Campbell J., Sharma, A., Martin, K., Dorman, M., & Langran, J. (2008)

Representation of voice onset time in the cortical auditory evoked

potentials of young children. Clinical Neurophysiology, 119(12):2855-61.

Note: First and second authors contributed equally. \*\*Reviewed by Dr.

Jean Francois Demonet, editor of BMC Neurology, in Faculty of 1000

Medicine. See Faculty of 1000 Medicine: evaluations for King KA et al.

Clin Neurophysiol 2008 Nov 1.

### Other Publications

- Campbell, J. (2019). Very high-frequency hearing loss and tinnitus: Is there a link?. Hearing Health Foundation, <a href="https://hearinghealthfoundation.org/blogs/very-high-frequency-hearing-loss-and-tinnitus-is-there-a-link">https://hearinghealthfoundation.org/blogs/very-high-frequency-hearing-loss-and-tinnitus-is-there-a-link</a>
- Campbell, J. (2018). Measuring brain signals leads to insights into mild tinnitus. Hearing Health Foundation,

  https://hearinghealthfoundation.org/blogs/measuring-brain-signals-leads-to-insights-into-mild-tinnitus
- Campbell, J. & Sharma, A. (2011). *The P1 CAEP biomarker: A case report*. Proceedings of the 10th European Symposium on Paediatric Cochlear Implantation, 297-302.
- Campbell, J. & Sharma, A. (2010). An objective measure of central auditory development in hearing impaired infants: Clinical implications. American Speech-Language-Hearing Association Kiran: Publication of the Asian-Indian Caucus, Issue 2010:4-7.

# Manuscripts in Preparation

- Campbell, J., +Nielsen, M., \*Bean, C, & \*LaBrec, A. (Submitted). Auditory gating in hearing loss. Journal of the American Academy of Audiology.
- **Campbell, J.,** & +Nielsen, M. (In preparation). *Inhibitory gating mechanisms related to SIN variability in normal-hearing young adults.*
- \*Suneel, D., Pho, M., & **Campbell, J.** (In preparation). The effects of multi channel cervical vestibular evoked myogenic potentials on amplitude asymmetry ratios.
- **Campbell, J.**, \*Rouse, R., +Nielsen, M., & +Potter, S. (In preparation). Auditory gating differences in children and adults and the relation to speech perception in background noise performance.
- **Campbell, J.**, & Sharma, A. (In preparation). Visual cross-modal re-organization in adults as a function of hearing loss severity.

- Campbell, J. (2017, October). Cortical re-organization in hearing loss and tinnitus. Oral presentation at the annual Texas Academy of Audiology (TAA) meeting, San Marcos, TX.
- Campbell, J. (2017, June). Cortical re-organization in children with cochlear implants and atypical auditory gating in normal hearing and tinnitus.

  Oral presentation at Child Language and Cognitive Processes Laboratory, University of Texas at Dallas.
- **Campbell, J.**, Sharma, A., & Cardon, G. (2011, March). *Clinical biomarkers of cortical plasticity in children with hearing loss*. Oral presentation at Tripler Army Medical Center, Honolulu, HI.

# Research Presentations Oral

- Campbell, J., +Nielsen, M., \*Bean, C., & \*LaBrec, A. (Spring 2019). *Inhibitory processes related to mild tinnitus in young adults with normal hearing*. Oral Presentation at the annual American Academy of Audiology national meeting, Columbus, OH.
- Sharma, A., **Campbell, J.**, & Cardon, G. (August 2014). *Changes in cortical resource allocation in age-related hearing loss*. Oral Presentation at the annual International Conference on Hearing Aids (IHCON), Lake Tahoe, CA.
- Sharma, A. & Campbell, J. (2012, January). *Central auditory development and plasticity in children with cochlear implants*. Oral presentation at Action Connaissance Formation pour la Surdité (ACFOS) meeting, Paris, France.
- **Campbell, J.** (2011, December). *Honey, turn up the TV! Hearing loss and the adult brain.* Oral presentation at the annual Front Range Neuroscience Meeting, Fort Collins, CO.
- **Campbell, J.** & Sharma, A. (2010, November). *Cortical re-organization and cross-modal plasticity in auditory deprivation*. Oral presentation at the annual American Speech-Language-Hearing Association meeting, Philadelphia, PN.
- **Campbell, J.** & Sharma, A. (2008, October). The clinical applications of cortical evoked potentials. Oral presentation at the annual Alaska Speech, Language and Hearing Association meeting, Anchorage, AK.

Campbell, J., Agung, K., & Sharma, A. (2008, June). Representation of voice onset time in the cortical auditory evoked potentials in young children. Oral presentation at the annual Rocky Mountain Neuroscience Group Regional Meeting, Denver, CO.

# Research Presentations Posters

- \*Bean, C., **Campbell, J.**, & +Nielsen, M. (2019, March). *Tinnitus and normal hearing: A proposed clinical battery*. Poster session at the annual American Academy of Audiology national meeting, Columbus, OH.
- \*LaBrec, A., Campbell, J., & +Potter, S. (2019, March). Visual cross-modal distractibility in high-frequency tinnitus. Poster session at the annual American Academy of Audiology national meeting, Columbus, OH.

  Nominated for the James and Susan Jerger Award
- \*Bean, C., Campbell, J., & \*Nielsen, M. (2018, October). Tinnitus and normal hearing: A proposed clinical battery. Poster session at the annual Texas Association of Audiology, Houston, TX. Awarded first place for student research
- \*LaBrec, A., Campbell, J., & \*Potter, S. (2018, October). Visual cross-modal distractibility in high-frequency tinnitus. Poster session at the annual Texas Association of Audiology, Houston, TX. Awarded third place for student research
- Campbell, J., Bean, C., & LaBrec, A. (2017, October). Tinnitus and normal hearing: The role of central inhibition. Poster session at the biennial National Center for Rehabilitative Auditory Research Conference on Translating Tinnitus Research Findings into Clinical Practice, Portland, OR.
- Glick, H., **Campbell, J.**, Sharma, A., Zeitler, D., Torres, J., & Dorman, M. (2015, November). *Cortical neuroplasticity in adults and children with single sided deafness*. Poster session at the annual American Speech-Language Hearing Association meeting, Denver, CO. \*\*Designated as a Meritorious Poster Submission
- **Campbell, J.**, Durkee, L., & Sharma, A. (2014, April). *Visual cross-modal reorganization in adults with hearing loss*. Poster session at the annual Cognitive Neuroscience Society meeting, Boston, MA.

- Durkee, L., Glick, H., **Campbell, J.**, Peterson, J., & Sharma, A. (2014, April). Compensatory changes in cortical resource allocation and auditory sensory gating in early stage hearing loss. Poster session at the annual Cognitive Neuroscience Society meeting, Boston, MA.
- Campbell, J., Durkee, L., & Sharma, A. (2013, November). *Cross-modal re organization in adults with early-stage hearing loss*. Poster session at the annual Society for Neuroscience meeting, San Diego, CA.
- Peterson, J., Durkee, L., **Campbell, J.**, & Sharma, A. (2013, October). *Cortical responses in a sensory gating paradigm*. Poster session at the annual Colorado Academy of Audiology meeting, Keystone, CO
- Campbell, J., Durkee, L., Sharma, A. (2012, March). *Cross-modal re organization in adults with hearing impairment*. Poster session at the annual American Auditory Society meeting, Scottsdale, AZ.
- **Campbell, J.**, Durkee, L., Sharma, A. (2011, December). *Cross-modal neuroplasticity in hearing loss*. Poster session at the annual Front Range Neuroscience Meeting, Fort Collins, CO.
- **Campbell, J.** & Sharma, A. (2010, December). *Cross-modal re-organization in children with cochlear implants*. Poster session at the annual Front Range Neuroscience Meeting, Fort Collins, CO.
- **Campbell, J.**, Agung, K., & Sharma, A. (2010, September). *Representation of voice* onset time in the cortical auditory evoked potentials in young children. Poster session at the annual Institute of Cognitive Science student research meeting, University of Colorado, Boulder, CO.
- Sharma, A., Dorman, M., Biever, A., Gilley, P., Nash, A., & Campbell, J. (2010, February). A sensitive period for cortical development and plasticity in children with sequential bilateral cochlear implants. Poster session at the annual Association for Research in Otolaryngology meeting, Anaheim, CA.
- **Campbell, J.**, Agung, K., & Sharma, A. (2008, September). Representation of voice onset time in the cortical auditory evoked potentials in young children. Poster session at the annual Colorado Academy of Audiology meeting, Estes Park, CO.
- Campbell, J., Martin, K., Nash, A., & Sharma, A. (2008, September).

  Methodological constraints on P1 CAEP recordings in cochlear implanted patients. Poster session at the annual Colorado Academy of Audiology meeting, Estes Park, CO.

- Loehman, M., Biever, A., Nash, A., **Campbell, J.**, & Sharma, A. (2008, September). Sequential bilateral implantation in noise: The relationship between neural plasticity and speech perception in noise. Poster session at the annual Colorado Academy of Audiology meeting, Estes Park, CO.
- White, T., Gabbard, A., Nash, A., **Campbell, J.**, Gilley, P., & Sharma, A. (2008, September). *Cortical Changes with high-frequency hearing loss*. Poster session at the annual Colorado Academy of Audiology meeting, Estes Park, CO.
- Campbell, J., Agung, K., & Sharma, A. (2008, June). Representation of voice onset time in the cortical auditory evoked potentials in young children. Poster session at the annual Newborn Hearing Screening meeting, Cernobbio, Italy.
- **Campbell, J.**, Habegger, N., & Arehart, K. (2007, October). *Temporally-based pitch perception in listeners with cochlear hearing loss.* Poster session at the annual Colorado Academy of Audiology meeting, Estes Park, CO.
- Nash, A., Campbell, J., Brooks, K., Loehman, M., White, T., Biever, A., Kelsall, D., Gilley, P.M., & Sharma, A. (2007, October). *Central auditory maturation in children with bilateral cochlear implants: Two case studies.* Poster session at the annual Colorado Academy of Audiology meeting, Estes Park, CO.
- **Campbell, J.**, Habegger, N., & Arehart, K. (2007, April). *Temporally-based pitch perception in listeners with cochlear hearing loss*. Poster session at the annual American Academy of Audiology meeting, Denver, CO.

### Graduate Student MA and PhD Committees

2017-Present	Mingshuang Li, PhD, Communication Disorders
2018-2019	Mary Lowery, MA, Speech-Language Pathology
2017-2018	Jessica Younger, PhD, Communication Disorders
2016-2018	Sangeeta Kamdar, PhD, Communication Disorders Hoyoung Yi, PhD, Communication Disorders
2016-2017	Caitlin Baker, MA, Speech-Language Pathology Jingjing Guan, PhD, Communication Disorders Liana Martinez, MA, Speech-Language Pathology

## **Doctoral Student Mentoring**

- Cheng, F-Y. (2018-Present). *Cortical inhibition in background* noise. PhD Student CSP Lab Research Rotation.
- Gold, L. (2018-2019). A novel electrode in VEMP recordings. AuD Capstone Thesis.
- Bean, C. (2017-2018). *OAEs and MOC efferent suppression in normal hearing adults with tinnitus*. AuD Capstone Thesis.
- LaBrec, A. (2017-2018). Tinnitus and attention: Cross-modal distractibility in normal hearing adults with tinnitus. AuD Capstone Thesis.
- Rouse, R. (2016-2017). Sensory gating in children and adults: A relationship with speech perception in background noise? AuD Capstone Thesis.

So, W. (Spring 2017). PhD Student CSP Lab Research Rotation

## **Undergraduate Student Mentoring**

Spring 2019	Rebeca Serna, Independent Study (CSP Lab)
Fall 2018	Alexandra Lavi, Independent Study (CSP Lab) Mashhood Nielsen, Independent Study (CSP Lab) Rebeca Serna, Independent Study (CSP Lab)
Summer 2018	Mashhood Nielsen, Independent Study (CSP Lab)
Spring 2018	Sheri Potter, Intellectual Entrepreneurship Program Sarah Bookout, Independent Study (CSP Lab) Alexandra Lavi, Independent Study (CSP Lab) Mashhood Nielsen, Independent Study (CSP Lab) Rebeca Serna, Independent Study (CSP Lab)
Fall 2017	Haley Forrest, Undergraduate Learning Assistant Pilot Program, <i>CSD 341: Principles of Audiology</i> Megan Nations, Independent Study (CSP Lab)
Spring 2016	Megan Nations, Independent Study (CSP Lab)

## **Teaching Experience**

- CSD 394K Readings in Audiology, Communication Sciences and Disorders, The University of Texas at Austin Instructor, Spring 2019
- CSD 341 Principles of Audiology, Communication Sciences and Disorders, The University of Texas at Austin Instructor, Fall 2017, Summer 2018-Present, Fall 2019-Present
- CSD 383P Surgically Implanted Auditory Prostheses, Communication Sciences and Disorders, The University of Texas at Austin Instructor, Spring 2017-2018
- CSD 394F Medical Audiology, Communication Sciences and Disorders, The University of Texas at Austin Instructor, Fall 2015-Present
- CSD 395Q Pediatric Audiology, Communication Sciences and Disorders, The University of Texas at Austin Instructor, Spring 2016-Present
- CSD 398P Research Project in Audiology, Communication Sciences and Disorders, The University of Texas at Austin Instructor, Spring 2016

# University Committees (University of Texas at Austin)

Fall 2017-Present	Communication Sciences and Disorders PhD Program Committee
Spring 2016-Present	Communication Sciences and Disorders AuD Admissions Committee Chair
Fall 2017	Communication Sciences and Disorders Audiology Faculty Search Committee
Spring 2017	Communication Sciences and Disorders Honors Committee Outstanding Dissertation Award for the Social Sciences, Business and Education Committee
Fall 2016-Fall 2017	Moody College of Communication Principal Investigators Committee

### Other Committees

Fall 2019-Present Scientific advisory board member, Misophonia Research

Fund, REAM Foundation

Summer 2019 Reviewer, Misophonia Grant Program, REAM Foundation

Spring 2018 Poster and Podium Talks Reviewer, *Hearing and Tinnitus* 

Through the Lifespan, American Speech-Language-Hearing

Association (ASHA) Annual Meeting, Fall 2018

### Reviewer

American Journal of Audiology
Cochlear Implants International
Ear and Hearing
Early Human Development
Frontiers in Neuroscience
Journal of Communication Disorders
Journal of Experimental Neuroscience
Journal of Speech, Language, and Hearing Research

## Memberships

American Academy of Audiology American Speech-Language-Hearing Association University of Texas at Austin Institute for Neuroscience