

CURRICULUM VITAE

Corianne Rogalsky

College of Health Solutions
Arizona State University
P.O. Box 870102
Tempe, AZ 85287

(480) 965-0576
corianne.rogalsky@asu.edu

EDUCATION

Ph.D. Psychology, University of California, Irvine, 2008
Area of concentration: Cognitive Neuroscience
M.A. Social Science, University of California, Irvine, 2005
B.S. Biochemistry, Loyola Marymount University, 2003

ACADEMIC APPOINTMENTS

2019- Program Coordinator of Speech and Hearing Science PhD & Auditory and Language Neuroscience MS programs, College of Health Solutions, ASU
2013- Assistant Professor of Speech and Hearing Science, College of Health Solutions, ASU
Faculty, Interdisciplinary Graduate Program in Neuroscience
Affiliated Faculty, Department of Psychology
Arizona State University
2012-2015 Consultant, Laboratory for Cognitive Neuroscience, Salk Institute for Biological Studies, La Jolla, CA
2011-2013 Postdoctoral Fellow, Auditory and Language Neuroscience Laboratory, Department of Cognitive Sciences, University of California, Irvine
2008-2011 Postdoctoral Research Associate, Dana and David Dornsife Cognitive Neuroscience Imaging Center, University of Southern California

PUBLICATIONS: SUBMITTED FOR PEER REVIEW

(* = ASU student under my mentorship)

*LaCroix, A.N., *Tully, M. & **Rogalsky, C.** (revisions submitted). Assessing alerting, orienting, and executive control attention in aphasia. Revisions submitted to *Cognitive Neuropsychology*.
Rogalsky, C., Basilakos, A., Rorden, C., Pillay, S., *LaCroix, A.N., *Mickelsen, S., Anderson, S.W., Love, T., Fridriksson, J., Binder, J. & Hickok, G. (in revision). The neuroanatomy of speech processing: a large-scale lesion study. Reviewed by *Cortex*.
*Fitzhugh, M.C., Sydney, S.Y., Baxter, L.C. & Rogalsky, C. (in revision). Cognitive and neural predictors of speech comprehension in noisy backgrounds in older adults. Submitted to *Language, Cognition and Neuroscience*.

PUBLICATIONS: PEER REVIEWED & PUBLISHED

(* = ASU student under my mentorship, †co-first =authors)

- *LaCroix, A.N., *Tully, M. & **Rogalsky, C.** (in press). The relationship between prosody, cognition, and sentence comprehension post-stroke. *Brain and Language*, <https://doi.org/10.1016/j.bandl.2020.104756>.
- Kim, K., Adams, L., Keator, L.M., Wright, A.E., Wright, A., Sheppard, S.M., Breining, B.L., Rorden, C., Fridriksson, J., Bonilha, L., **Rogalsky, C.**, Love, T., Hickok, G. & Hillis, A.E. (2019). Neural processing critical for distinguishing between speech sounds. *Brain and Language* 197:104677.
- *LaCroix, A.N., **Blumenstein, N., **Houlihan, C. & **Rogalsky, C.** (2019). The effects of prosody on sentence comprehension: evidence from a neurotypical control group and seven cases of chronic stroke. *Neurocase* 25(3-4), 106-117.
- *Fitzhugh, M.C., *Whitehead, P.S., *Johnson, L., *Cai, J.M., Baxter, L.C. & **Rogalsky, C.** (2019). A functional MRI investigation of cross-modal interference in an audiovisual Stroop task. *PLoS One* 14(1): e0210736.
- *Fitzhugh, M.C., Braden, B., Sabbagh, M., **Rogalsky, C.**, Baxter, L.C., (2019). Age-related atrophy and compensatory neural networks in reading comprehension. *Journal of the International Neuropsychological Society* 25(6), 569-582.
- †Hickok, G., †**Rogalsky, C.** Matchin, W., Basilakos, A., *Cai, J., Pillay, S., Binder, J. & Fridriksson, J. (2018). Neural networks supporting audiovisual integration for speech: a large-scale lesion study. *Cortex* 103, 360-371.
- Berisha, V., Gilton, D., Baxter, L.C., Corman, S.R., Blais, C., Brewer, G., Ruston, S., Ball, B.H., Wingert, K.M., Peter, B. & **Rogalsky, C.** (2018). Structural neural predictors of Farsi-English bilingualism. *Brain and Language* 180-182, 42-49.
- *Johnson, L., *Fitzhugh, M.C., Yi, Y., *Mickelsen, S., Baxter, L.C., Howard, P. & **Rogalsky, C.** (2018). Functional neuroanatomy of second language sentence comprehension: an fMRI study of late learners of American Sign Language. *Frontiers in Psychology*, 9:1626.
- Rogalsky, C.**, *LaCroix, A., Chen, K.H., Anderson, S.W., Damasio, H., Love, T. & Hickok, G. (2018). The neurobiology of agrammatic sentence comprehension: a lesion study. *Journal of Cognitive Neuroscience*.
- Okada, K., **Rogalsky, C.**, O'Grady, L., Hanaumi, L., Bellugi, U., Corina, D. & Hickok, G. (2016). An fMRI study of perception and action in Deaf signers. *Neuropsychologia* 82, 179-188.
- Rogalsky, C.**, Poppa, T., Chen, K., Anderson, S.W., Damasio, H., Love, T. & Hickok, G. (2015). Speech repetition as a window on the neurobiology of auditory-motor integration for speech: a voxel-based lesion symptom mapping study. *Neuropsychologia* 71, 18-27.
- Rogalsky, C.**, Almeida, D., Sprouse, J. & Hickok, G. (2015). Sentence processing selectivity in Broca's area: evident for structure but not syntactic movement. *Language, Cognition & Neuroscience* 30(10), 1326-1338.
- *LaCroix, A., Diaz, A.F. & **Rogalsky, C.** (2015). The relationship between the neural computations for speech and music perception is context-dependent: an activation likelihood estimate study. *Frontiers in Psychology* 6:1138.
- Garrison, K., **Rogalsky, C.**, Sheng, T., Liu, B., Damasio, H., Winstein, C.J. & Aziz-Zadeh, L.S. (2015). Functional MRI preprocessing in lesioned brains: manual versus automated region of interest analysis. *Frontiers in Neurology* 6:196.
- Hickok, G., **Rogalsky, C.**, Chen, R., Herskovits, E.H., Townsley, S. & Hillis, A.E. (2014). Partially overlapping sensorimotor networks underlie speech praxis and verbal short-term memory: evidence from apraxia following acute stroke. *Frontiers in Human Neuroscience*, 8:649.

- Rogalsky, C.**, Raphel, K., Tomkovicz, V., O'Grady, L., Damasio, H., Bellugi, U., & Hickok, G. (2013). Neural Basis of Action Understanding: Evidence from Sign Language Aphasia. *Aphasiology* 27(9) 1147-1158.
- Rogalsky, C.**, Vidal, C. Li, X. & Damasio, H. (2012). Risky decision-making in older adults without cognitive deficits: an fMRI study of VMPFC with the Iowa Gambling Task. *Social Neuroscience*, 7(2), 178-90.
- Hickok, G. & **Rogalsky, C.** (2011). What Does Broca's Area Activation to Sentences Reflect? *Journal of Cognitive Neuroscience*. 23(10), 2629-2631.
- Rogalsky, C.**, Rong, F., Saberi, K. & Hickok, G. (2011). Functional anatomy of language and music perception: temporal and structural factors investigated using fMRI. *Journal of Neuroscience* 31(10), 3843-3852.
- Rogalsky, C.**, Love, T., Driscoll, D., Anderson, S.W. & Hickok, G. (2011). Are mirror neurons the basis of speech perception? Evidence from five cases with damage to the purported human mirror system. *Neurocase*, 17(2), 178-187.
- Rogalsky, C.** & Hickok, G. (2011). The role of Broca's area in sentence comprehension. *Journal of Cognitive Neuroscience*, 23(7), 1664-1680.
- Rogalsky, C.** & Hickok, G. (2009). Selective attention modulates sentence processing networks in anterior temporal cortex. *Cerebral Cortex*, 19(4), 786-796.
- Rogalsky, C.**, Matchin, W. & Hickok, G. (2008). Broca's area, sentence comprehension, and working memory: an fMRI study. *Frontiers in Human Neuroscience*, 2:14. doi: 10.3389/neuro.09.0142008.
- Rogalsky, C.**, Pitz, E., Hillis, A.E. & Hickok, G. (2008). Auditory word comprehension impairment in acute stroke: relative contribution of phonemic versus semantic factors. *Brain and Language*, 107(2): 167-169.
- Hickok, G., Okada, K., Barr, W., Pa, J., **Rogalsky, C.**, Donnelly, K., Barde, L. & Grant, A. (2008). Bilateral capacity for speech sound processing in auditory comprehension: evidence from Wada procedures. *Brain and Language* 107(3) 179-84.
- Paulus, M. P., **Rogalsky, C.**, Simmons, A., Feinstein, J.S., & Stein, M.B. (2003). Increased activation in the right insula during risk taking decision making is related to harm avoidance and neuroticism. *NeuroImage*, 19(4): 1439-1448.

PUBLICATIONS: INVITED BOOK CHAPTERS

- Matchin, W. & **Rogalsky, C.** (in press). Aphasia and syntax. In Oxford Handbook of Experimental Syntax, ed. Sprouse, J. Oxford University Press.
- Rogalsky, C.** (2015). The role of the anterior temporal lobe in sentence processing. In *Neurobiology of Language*, eds. Hickok, G. & Small, S. Elsevier.

COLLOQUIA & PRESENTATIONS (* = ASU student under my mentorship)

- Rogalsky, C.** (2019). The roles of selective attention in speech comprehension and aphasia rehabilitation. Invited Speaker, Center for the Study of Aphasia Recovery Lecture Series, University of South Carolina.
- *LaCroix, A.N. & **Rogalsky, C.** (2019). Alerting, orienting, and executive control: post-stroke effects of attention abilities on speech comprehension. Data Blitz Presentation, 2019 Cognitive Neuroscience Society Meeting, San Francisco, CA.
- Rogalsky, C.** (2016). New directions in the neuroscience of language. Invited speaker, Phoenix Children's Hospital Applied Neuroscience Research Meeting December 2016.

- *LaCroix, A., *Cai, J., Baxter, L., & **Rogalsky, C.** (2016). The relationship between functional reorganization, language and cognition post-stroke: A neuroimaging and behavioral case study. Technical Presentation, 2016 American Speech-Language-Hearing Association Annual Convention, Philadelphia, PA, USA.
- Rogalsky, C.**, *LaCroix, A., Chen, K., Anderson, S.W., Damasio, H., Love, T. & Hickok, G. (2015). Damage to Broca's area or the anterior temporal lobe is implicated in stroke-induced agrammatic comprehension: it depends on the task. Platform Presentation, *2015 Academy of Aphasia Annual Meeting*, Tucson, AZ, USA.
- *Cai, J., *Blumenstein, N., Diaz, A., Baxter, L.C. & **Rogalsky, C.** (2015). Functional reorganization of language and music perception post-stroke: a functional magnetic resonance imaging study. Technical Session, 2015 Arizona Speech-Language-Hearing Association Convention. Phoenix, AZ.
- Rogalsky, C.**, Chen, K., Poppa, T., Anderson, S.W., Damasio, H., Binder, J., Love, T. & Hickok, G. (2014). Relative contributions of the dorsal vs. ventral speech streams to speech perception are context dependent: a lesion study. Platform Presentation, *2014 Academy of Aphasia Annual Meeting*, Miami, FL, USA.
- Rogalsky, C.** (2014). Neuroimaging techniques to characterize the neural computations underlying human communication. Invited Speaker, ASU / Banner Sun Health Research Institute Neuroscience Forum, Tempe, Arizona.
- Rogalsky, C.** (2014). Characterizing top-down influences on speech perception in healthy and patient brains. Invited Speaker, Department of Speech, Language & Hearing Sciences Colloquium Series, University of Arizona.
- Rogalsky, C.** (2013). What the brain looks like for normal hearing listeners when stimulated with speech. Invited Speaker, Neural Imaging Meeting: from Cochlea to Cortex, Arizona State University.
- Poppa, T., **Rogalsky, C.**, Raphel, K., Anderson, S.W., Damasio, H., Love, T. & Hickok, G. (2013). Sensory-motor integration in speech production, a voxel-based lesion-symptom mapping study. Oral Session, 2013 Human Brain Mapping Conference, Seattle, WA, USA.
- Rogalsky, C.**, Tomkovicz, V., Batch, L., Damasio, H., Bellugi, U., & Hickok, G. (2012). Sign language comprehension & the neural basis of action understanding: a lesion study. Platform Presentation, *2012 Academy of Aphasia Annual Meeting*, San Francisco, CA, USA.
- Rogalsky, C.** (2011). Cognitive, emotional, and neuroanatomical variability in older adults without dementia. Presentation, *2011 What's Hot in Aging Research at USC: Interdisciplinary Perspectives*. Los Angeles, CA.
- Rogalsky, C.**, Love, T., Shivapour, S., Driscoll, D., Anderson, S.W. & Hickok, G. (2010). Neuroanatomy of speech perception in noisy conditions: a lesion study. Nanosymposium, *2010 Society for Neuroscience Meeting*, San Diego, CA.
- Rogalsky, C.**, Love, T., Driscoll, D., Anderson, S.W. & Hickok, G. (2010). The relationship between speech perception and the human "mirror system": evidence from lesion case-studies. Slide Presentation, *2010 Cognitive Neuroscience Society Meeting*, Montreal, Canada.
- Hickok, G., Fillmore, P., **Rogalsky, C.** & Saberi, K. (2010). fMRI Investigations of Auditory Sequence Processing. *Western Society for the Study of Sequencing and Timing Annual Meeting*, Santa Barbara, CA.
- Rogalsky, C.**, Driscoll, D., Wisnowski, J.L., Anderson, S.W., Hickok, G. (2009). Contributions of the anterior temporal lobe to sentence comprehension: a lesion study. Slide Presentation, *2009 Cognitive Neuroscience Society Meeting*, San Francisco, CA.

- Rogalsky, C.**, Matchin, W. & Hickok, G. (2008). Investigating the relationship between Broca's area, sentence processing and working memory: an fMRI study of sentence comprehension during articulatory suppression. Slide Presentation, 2008 Society for Neuroscience, Washington, D.C.
- Rogalsky, C.** (2008). Exploring sentence processing networks using fMRI. Invited Speaker, Language Acquisition Focus Group, Department of Linguistics, University of Southern California.
- Rogalsky, C.** (2008). Parsing the Brain: fMRI Investigations of the Functional Neuroanatomy of Sentence Processing. Invited Speaker, Psychobabble Psycholinguistics Seminar, UCLA Department of Linguistics.

PUBLICATIONS: ABSTRACTS & POSTERS

(* = ASU student under my mentorship)

- LaCroix, A.N., **Rehwalt, C., **Ordaz, E., & Rogalsky, C. (accepted, upcoming) Attention! Behavioral evidence of distinct contributions of attention and working memory to speech comprehension. Poster Session, 2020 Cognitive Neuroscience Society Meeting, Boston, MA.
- *LaCroix, A.N., *Tully, M., Chao, S., Dailri, A., & **Rogalsky, C.** (2019). An investigation of auditory motor integration following left hemisphere stroke using auditory feedback perturbation. Poster Session, 2019 American Speech-Language-Hearing Association Annual Convention, Orlando, FL.
- *Lingo VanGilder, J., *Fitzhugh, M.C., **Rogalsky, C.** & Schaefer, S.Y. (2019). Neuroanatomical correlates of motor learning and visuospatial processes in cognitively-intact older adults. Poster Session, 2019 Society for Neuroscience, Chicago, IL.
- *Fitzhugh, M.C., Schaefer, S., Baxter, L.C., **Rogalsky, C.** (2018). Exploring the link between age-related hearing loss, resting-state network connectivity and speech comprehension in older adults. Poster Session, 2018 Society for Neuroscience, San Diego, CA.
- *LaCroix, A., *Cai, J., Baxter, L.C. & **Rogalsky, C.** (2018). Using prosody to improve spoken language comprehension in persons with aphasia. Poster Session, 2018 American Speech-Language-Hearing Association Annual Convention, Philadelphia, PA.
- *Fitzhugh, M.C., Baxter, L.C. & **Rogalsky, C.** (2018). How does functional connectivity between domain-general and language networks relate to sentence comprehension? A resting-state fMRI study in older adults. Poster Session, Society for the Neurobiology of Language, Quebec City, Canada.
- Adams, L., Kim, K., Keator, L., Wright, A., Saxena, S., Wright, A., Hickok, G., **Rogalsky, C.** & Hillis, A.E. (2018). Impaired phoneme discrimination and word comprehension due to acute left superior temporal gyrus dysfunction. Poster Session, 2018 Society for the Neurobiology of Language, Quebec City, Canada.
- *Fitzhugh, M.C., Baxter, L.C. & **Rogalsky, C.** (2018). Functional connectivity changes and hearing loss in older adults. Poster Session, Arizona Alzheimer's Consortium, Phoenix, AZ.
- *LaCroix, A., *Johnson, L., *Blumenstein, N., Maze, S., Baxter, L. C., & **Rogalsky, C.** (2017). The neurobiology of prosody and sentence structure: A fMRI study. Poster Session, 2017 Cognitive Neuroscience Society Meeting, San Francisco, CA.
- *Johnson, L., Yi, Y., *Mickelsen, S., *Fitzhugh, M.C., Baxter, L.C., Howard, P. & **Rogalsky, C.** (2016). Functional plasticity of sentence-processing brain

- networks: an fMRI study of late American Sign Language acquisition. Poster Session, 2016 Society for Neuroscience, San Diego, CA.
- *LaCroix, A., *Blumenstein, N., *Houlihan, C. & **Rogalsky, C.** (2016). Shared and distinct cognitive resources for syntax and prosody: a sentence comprehension study. Poster Session, 2016 Neurobiology of Language Conference, London, UK.
- *Fitzhugh, M.C., *Whitehead, P.S., *Johnson, L., & Price, D.C., & **Rogalsky, C.** (2016). An investigation of the relationship between the cognitive resources engaged by syntactic and acoustic complexity. Poster Session, 2016 Neurobiology of Language Conference, London, UK.
- *Barragan, B., *Martinez, M., *Jimenez, L., *Vose, C., Diaz, A. & Rogalsky, C. (2015). Neurobiology of accented speech perception: a functional MRI pilot study. Oral Presentation and Student Award, Arizona Psychological Association 2015 Convention.
- *Fitzhugh, M.C., *Whitehead, P., *Johnson, L., Diaz, A.F., Baxter, L.C. & **Rogalsky, C.** (2015). An investigation of executive function resources in audiovisual speech comprehension: an fmri study. Poster Session, 2015 Neurobiology of Language Conference, Chicago, IL.
- Diaz, A.F., Yi, Y., *Whitehead, P., Kothe, L. & **Rogalsky, C.** (2015). The relationship between cognitive control and speech: a dual-task behavioral study. Poster Session, 2015 Neurobiology of Language Conference, Chicago, IL.
- Corina, D., Pedersen, S., Faranady, C., **Rogalsky, C.**, Hickok, G. & Bellugi, U. (2015). Limb apraxia in American Sign Language. Poster Session, 2015 Neurobiology of Language Conference, Chicago, IL.
- Yi, Y., Diaz, A.F., *Houlihan, C., Baxter, L.C., Hickok, G. & **Rogalsky, C.** (2015). Interaction of working memory, modality & sentence comprehension in Broca's area: an fMRI study. Poster Session, 2015 Society for Neuroscience Meeting, Chicago, IL.
- Rogalsky, C.**, Matchin, W., Chen, K., Anderson, S.W., Binder, J., Damasio, H., Love, T. & Hickok, G. (2015). Audiovisual integration for speech: a voxel-based lesion symptom mapping study. Poster Session, 2015 Human Brain Mapping Conference, Honolulu, HI.
- *LaCroix, A., **Rogalsky, C.**, Chen, K., *Hays, G., Anderson, S.W., Damasio, H., Love, T. & Hickok, G. (2015). The neurobiology of agrammatic sentence comprehension: a lesion study. Poster Presentation, 2015 Cognitive Neuroscience Society Meeting, San Francisco, CA.
- Rogalsky, C.**, Baxter, L.C., Diaz, A., Maze, S. & *Mickelsen, S. (2014). Beyond Broca's area: an fMRI study of individual differences in domain-general mechanisms contributing to sentence comprehension. Poster Presentation, 2014 Neurobiology of Language Conference, Amsterdam, Netherlands.
- Diaz, A., Hickok, G. & **Rogalsky, C.** (2014). Characterizing the neural computations of sentence comprehension: an activation likelihood estimate (ALE) meta-analysis. Poster Presentation, 2014 Neurobiology of Language Conference, Amsterdam, Netherlands.
- Payne, J., Hickok, G. & **Rogalsky, C.** (2014). Differences in language and music processing: auditory, motor and emotional networks. Poster Presentation, 2014 Neurobiology of Language Conference, Amsterdam, Netherlands.
- Okada, K., **Rogalsky, C.**, O'Grady, L., Hanaumi, L., Bellugi, U., Corina, D. & Hickok, G. (2014). An fMRI study of language comprehension and production of actions and objects in deaf signers. 2014 Human Brain Mapping Conference, Hamburg, Germany.

- Rogalsky, C.**, Raphel, K., Tomkovicz, V., Poppa, T., Anderson, S.W., Damasio, H., Love, T. & Hickok, G. (2013). The neural basis of speech perception is task-dependent: a lesion study. 2013 Neurobiology of Language Conference, San Diego, CA, USA.
- Okada, K., **Rogalsky, C.**, O'Grady, L., Hanaumi, L., Bellugi, U., Corina, D. & Hickok, G. (2013). The relation between perception and action: evidence from sign language. 2013 Neurobiology of Language Conference, San Diego, CA, USA.
- Ferrill, M., Walenski, M., **Rogalsky, C.** & Love, T. (2013). Neural correlates of the effect of speech rate on lexical access and syntactic dependencies during sentence comprehension. 2013 Neurobiology of Language Conference, San Diego, CA, USA.
- Rogalsky, C.**, Raphel, K., Tomkovicz, V., Poppa, T., Anderson, S.W., Damasio, H., Love, T. & Hickok, G. (2013). The neural basis of speech perception is task-dependent and does not rely on the motor system: a lesion study. Poster Session, 2013 Cognitive Neuroscience Society Meeting, San Francisco, CA, USA.
- Poppa, T., **Rogalsky, C.**, Raphel, K., Anderson, S.W., Damasio, H., Love, T. & Hickok, G. (2013). The neuroanatomy of sensory-motor integration: a lesion study. Poster Session, 2013 Cognitive Neuroscience Society Meeting, San Francisco, CA, USA.
- Matchin, W., Ferrill, M., **Rogalsky, C.**, Love, T. & Hickok, G. (2012). Audiovisual speech integration does not rely on the motor system: evidence from intact McGurk fusion in Broca's aphasia. *2012 Neurobiology of Language Conference*, San Sebastian, Spain.
- Rogalsky, C.**, Tomkovicz, V., Shivapour, S. & Hickok, G. (2011). Role of Broca's area in sentence comprehension: a lesion study. Poster Session, *2011 Neurobiology of Language Conference*, Annapolis, MD, USA.
- Hickok, G., **Rogalsky, C.**, Tomkovicz, V., Batch, L., Damasio, H. & Bellugi, U. (2011). Neural basis of action understanding: evidence from sign language aphasia. Poster Session, *2011 Neurobiology of Language Conference*, Annapolis, MD, USA.
- Garrison, K.A., **Rogalsky, C.**, Ma, K.C., Damasio, H., Winstein, C.J. & Aziz-Zadeh, L.S. (2011). Spatial Normalization of lesion brains: Impact on fMRI region of interest analyses. 2011 Radiological Society of North America Annual Meeting, Chicago, IL.
- Rogalsky, C.**, Love, T., Shivapour, S., Driscoll, D., Anderson, S.W. & Hickok, G. (2010). Neuroanatomy of speech perception in noisy conditions: a lesion study. Poster Session, *2010 Neurobiology of Language Conference*, San Diego, CA.
- Rogalsky, C.**, Vidal, C.N., Li, X., Moussa, M.N., Bechara, A. & Damasio, H. (2009). Individual variability in the neural correlates of risky decision-making in the elderly: an fMRI study. Poster Session, *2009 Society for Neuroscience Meeting*, Chicago, Illinois.
- Pitz, E., **Rogalsky, C.**, Pawlak, M., Hickok, G. & Hillis, A.E. (2009). Areas of ischemia associated with semantic vs. phonological areas in auditory comprehension. Paper Presentation, *2009 Academy of Aphasia 47th Annual Meeting*, Boston, Massachusetts.
- Rogalsky, C.**, Saberi, K. & Hickok, G. (2009). Temporal and structural contributions to activation of anterior temporal sentence processing regions: an fMRI study. Poster Session, *2009 Human Brain Mapping Conference*, San Francisco, California.

- Pitz, E., **Rogalsky, C.**, Hickok, G. & Hillis, A.E. (2009). Neural correlates of impaired auditory word comprehension following acute left hemisphere stroke. Poster Session, *2009 International Stroke Conference*, San Diego, CA.
- Rogalsky, C.** & Hickok, G. (2008). An fMRI investigation of the functional specificity of sentence processing Networks: A Comparison of Sentences and Melodies. Poster Session, *2008 Cognitive Neuroscience Society Meeting*, San Francisco, California.
- Rogalsky, C.** & Hickok, G. (2007). Syntactic or semantic processing in the anterior temporal lobe? A selective attention fMRI experiment. Poster Session, *2007 Cognitive Neuroscience Society Meeting*, New York, New York.
- Hickok, G. & **Rogalsky, C.** (2007). Working memory and sentence comprehension during articulatory suppression. Poster Session, *2007 Cognitive Neuroscience Society Meeting*, New York, New York.
- Rogalsky, C.**, & Hickok, G. (2006). The effect of selective attention to syntactic and semantic properties on sentence processing networks: an fMRI study. Poster Session, *2006 Society for Neuroscience*, Atlanta, Georgia.
- Okada, K., Grant, A.C., Barr, W.B., **Rogalsky, C.** & Hickok, G. (2006). Auditory comprehension of speech during WADA procedures. Poster Session, *North American Regional Epilepsy Congress*, San Diego, CA.
- Rogalsky, C.**, Smith, K., Okada, K., & Hickok, G (2005). Tone-sequence learning modulates activity in an auditory-motor network: an fMRI study. Poster Session, *2005 International Conference on Cognitive Neuroscience*, Havana, Cuba.
- Rogalsky, C.**, Smith, K., Okada, K., & Hickok, G (2005). Tone-sequence learning modulates activity in an auditory-motor network. Poster Session, *2005 Cognitive Neuroscience Society Meeting*, New York, New York

GRANTS AWARDED

- 2015-2020 NIH R01 DC009659, "Integrative Functions of the Planum Temporale"
Role: Co-Investigator & Subcontract PI
Total Costs: \$3.4M, ASU Subcontract: \$424,145
- 2018-2023 NIH R25 NS107188, "Workforce Inclusion in Neuroscience through Undergraduate Research Experience"
Role: Mentor
Total Costs: \$1.27M
- 2014-2015 GRAMMY Foundation Scientific Research Grant, "Musical Facilitation of Speech Comprehension in Stroke"
Role: PI
Total Costs: \$19,464
- 2013-2015 NIH R01 DC03681, "Neurobiology of Auditory Language Perception"
Role: Subcontract PI
Total Costs: \$2.4M, ASU Subcontract: \$53,822

SELECT GRANT PROPOSALS SUBMITTED, PENDING REVIEW

- 2019 NIH NIDCD R01 "The role of selective attention in speech comprehension"
Role: PI

Total Costs: \$2.2M (65% allocation)
(resubmission of proposal previously discussed)

- 2019 NIH NIDCD R21 “The use of StartReact as an adjuvant therapy to unlock preserved speech production to unlock preserved speech production capabilities in individuals with severe, non-fluent aphasia”
Role: Co-I
Total Costs: \$407,194 (25% allocation)

FUNDING AWARDS BY STUDENTS

- 2018-2019 18PRE33990328 American Heart Association Predoctoral Fellowship
“The role of prosody in speech comprehension post-stroke”
Role: Faculty Sponsor (Awarded to my PhD student Arianna LaCroix)
Total Costs: \$53,688

AWARDS

- 2019 ASU College of Health Solutions Service Award
2015 Selected Participant, American Speech-Language & Hearing Association’s Lessons for Success Workshop
2012-2016 National Institutes of Health Loan Repayment Program Awardee
2011 Postdoctoral National Research Service Award (NRSA), NIH/NIA, (PI), declined due to new appointment

PRESS

Guest on KJZZ for expertise in neuroscience of auditory illusions, 8/30/18:
<https://theshow.kjzz.org/content/692546/auditory-illusions-offer-insights-music-evolution-and-brain>

PhD student’s work featured by the National Aphasia Association, 8/22/18:
<https://www.aphasia.org/stories/research-aphasia-language-comprehension/>

Aphasia work featured on NPR’s Public Health Minute on 9/15/16:
<http://wp.lehman.edu/public-health-minute-with-william-latimer/?s=rogalsky>

COURSES

SHS 575 Aphasia & Other Related Neurogenic Disorders: Spring 2015 -2019

This master’s level course incorporates a flipped classroom design to maximize hands-on training and critical thinking regarding acquired language and cognitive disorders for training speech-language pathologists. (2-3 units)

SHS 485 Acquired Speech & Language Disorders: Spring 2014-2019 on-ground, Fall 2020 online

This large lecture upper division undergraduate course surveys the etiologies and characteristics of adult speech, language, and cognitive disorders due to brain damage. (3 units)

SHS 543 Functional Neuroimaging of Language and Related Cognitive Processes: Fall 2014, 2016, 2018

This practicum-style graduate course provides graduate and highly-motivated undergraduates the training and opportunity to design, implement, and analyze a functional MRI pilot experiment. (3 units; 2014-2016 the course was listed as SHS 598 Functional Neuroimaging of Cognition)

SHS 598 Trends in Communication Neuroscience: Fall 2015

This graduate level course features weekly student-led debates and discussions of opposing sides of theoretical controversies or conflicting findings in the field of communication neuroscience. (3 units)

SHS 790 Responsible Conduct of Research: Fall 2018, 2019

This online/in-person hybrid course required for Speech and Hearing Science doctoral students meets the requirements for NIH trainees' responsible conduct of research training and also covers academic integrity issues related to research, teaching, and being a student. (1 unit)

Academic Integrity Workshop: Spring 2016, 2017

This semester-long online/in-person hybrid workshop required for Speech and Hearing Science doctoral students explores issues of academic integrity and how to approach them as a researcher, instructor, and student. (0 units, but required)

Responsible Conduct of Research Workshop: Fall 2015, 2016

This semester-long online/in-person hybrid course required for Speech and Hearing Science doctoral students meets the requirements for NIH trainees' responsible conduct of research training. (0 units, but required)

STUDENT MENTORSHIP

Doctoral

Committee Chair:

Haoze Zhu (Speech & Hearing Science)

Began PhD program in Fall 2019, expected defend preliminary exam in Fall 2020

Megan Fitzhugh (Speech & Hearing Science) (co-chair)

defended dissertation April 2019; Accepted postdoctoral fellowship in the Davis School of Gerontology at University of Southern California

Arianna LaCroix (Speech and Hearing Science)

defended dissertation March 2019; Accepted tenure-track assistant professor position at Midwestern University

Committee Member:

Jennapher VanGilder (Biomedical Engineering), comprehensive exams completed Summer 2018

Beatriz Barragan (Speech and Hearing Science), dissertation defended Spring 2018

Melissa Walsh (Speech and Hearing Science), preliminary exam passed Fall 2017

Katherine Hebert (Psychology), comprehensive exams completed Fall 2017

Stephen Walenchok (Psychology), comprehensive exams completed Fall 2016

Shauna Baker (Speech and Hearing Science), comprehensive exams completed Fall 2016

Karen Gallagher (Speech and Hearing Science), comprehensive exams completed Fall 2016

Master's

Committee Chair:

Julia Cai (Communication Disorders)

"The neurobiology of audiovisual integration voxel-based lesion symptom mapping study," thesis defended Spring 2017

Arianna LaCroix (Communication Disorders)

"The effects of music on auditory-motor integration for speech: a behavioral priming and interference study," thesis defended Spring 2015

Undergraduates – Barrett Honors Students

Committee Chair:

Cassandra Rehwalt (Speech and Hearing Science)

honors thesis defended Spring 2019

Nicole Blumenstein (School of Music)

"The effect of scale and familiarity on the perception of music "dissonance"," honors thesis defended Spring 2017

Chloe Houlihan (Biomedical Engineering)

"A functional and structural MRI investigation of the neural signatures of dyslexia," honors thesis defended Spring 2017

Soren Mickelson (Speech and Hearing Science)

"The neurobiology of sentence comprehension: a functional MRI study of late American Sign Language," honors thesis defended Spring 2016

Committee Member:

Allison Daugherty (Speech and Hearing Science)

honors thesis defended Spring 2019

Lacee Fitzgerald (Speech and Hearing Science)

honors thesis defended Spring 2019

Peter Whitehead (Psychology)

"Reliability of Cognitive Control Tasks," honors thesis defended Fall 2015

Undergraduates – Advanced Research Experience Seminar Students

Cassandra Rehwalt (Speech and Hearing Science)

"The effects of music on auditory-motor integration for speech: a behavioral study of older adults," presented Spring 2017

Lisa Johnson (Speech and Hearing Science)

"Functional plasticity of sentence-processing brain networks: an fMRI study of late American Sign Language acquisition," presented Spring 2016

Julia Cai (Speech and Hearing Science)

"Functional reorganization of language and music perception post-stroke: fMRI and behavioral evidence," presented Spring 2015

ASU SERVICE

University-wide:

- 2019-2020 Member, Ad Hoc Neurobiology Faculty Search Committee, School of Life Sciences, ASU (outside member)
- 2018, 2019 Member, Graduate College's ARCS Faculty Review Committee
- 2014-2017 Member, Executive Committee of the Interdisciplinary Neuroscience Graduate Program

College of Health Solutions:

- 2019- Member, Personnel (Ad Hoc Annual Review: Tenure/Tenure Track) Committee
- 2019- Co-Coordinator, Advanced Research Experience Seminar (ARES)
- 2018, 2019 JumpStart Grant Reviewer
- 2017-2019 Co-Coordinator, Auditory & Language Neuroscience Master's Degree Program
- 2014- Member, Speech and Hearing Science PhD Admissions and Program Committee
- 2014-2016 Member, Ad Hoc Speech and Hearing Science Faculty Search Committee

OUTSIDE SERVICE

Editorships:

- 2015- Associate Editor, Auditory Cognitive Neuroscience Section, *Frontiers in Psychology*

Grant Review:

- 2019 Ad Hoc Reviewer, NIH, Language and Communication (LCOM) Study Section
2018-2020 Reviewer, National Science Foundation
2016 Ad Hoc Reviewer, NIH, Sensation, Perception & Cognition (SPC) Section
2015 Invited Reviewer, Vienna (Austria) Science and Technology Fund

Service to Professional Organizations:

- 2015-2019 Elected Member of the Symposium Committee for the Cognitive Neuroscience Society Meeting
2015 Abstract Review Committee, 2015 Human Brain Mapping Conference
2013 Abstract Review Committee, 2014 Society for Neurobiology of Language Conference

Reviews for Journals:

- 2015- Review Editor, *Frontiers in Neuroscience*
- 2013- Ad hoc Reviewer:
Journal of Neuroscience
Cortex
Scientific Reports
Cognition
Psychonomic Bulletin & Review
Cerebral Cortex
Journal of Neurophysiology
Journal of Cognitive Neuroscience
Human Brain Mapping
Brain and Language
Language and Cognitive Processes
European Journal of Neuroscience
NeuroImage
Journal of Speech, Language, and Hearing Research
Brain and Cognition
Aphasiology
Brain Structure and Function

PROFESSIONAL AFFILIATIONS

- Member, Society for the Neurobiology of Language
Member, Society for Neuroscience
Member, Cognitive Neuroscience Society
Member, Organization for Human Brain Mapping
Non-Certified Member, American Speech-Language-Hearing Association