

Matthew K. Leonard, Ph.D

Curriculum Vitae

Assistant Professor
Department of Neurological Surgery
University of California, San Francisco
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San Francisco, CA 94158
Matthew.Leonard@ucsf.edu

EDUCATION

2006-2011	Ph.D. Cognitive Science	University of California, San Diego
2006-2008	M.S. Cognitive Science	University of California, San Diego
2002-2006	B.A. Cognitive Science	Occidental College (<i>Magna Cum Laude, Honors</i>)

POSITIONS

2016-Present	Adjunct Assistant Professor	UCSF
2012-2016	NIH Postdoctoral Fellow	UCSF: Chang Lab
2011-2012	Postdoctoral Scholar	UCSD: Multimodal Imaging Laboratory
2005-2007	Research Assistant	Caltech: Adolphs Lab

PUBLICATIONS (*Equally contributing authors)

Under Review

Chiong, W., **Leonard, M.K.**, & Chang, E.F. (In Revision). Neurosurgical patients as human research subjects: ethical considerations in intracranial electrophysiology research.

Khoshkhoo, S.*, **Leonard, M.K.***, Mesgarani, N., & Chang, E.F. (Under Review). Neural correlates of sine wave speech intelligibility in human frontal and temporal cortex.

Martin, S.*, Mikutta, C.*, **Leonard, M.K.**, Hungate, D., Koelsch, S., Chang, E.F., Millán, J.delR., Knight, R.T., & Pasley, B.N. (2017). Neural Encoding of Auditory Features during Music Perception and Imagery: Insight into the Brain of a Piano Player. *bioRxiv*, 106617. doi: 10.1101/106617. (Under Review)

Published

Rao, V.R.*, **Leonard, M.K.***, Kleen, J.K., Lucas, B.A., Mirro, E.A., & Chang, E.F. (2017). Chronic ambulatory electrocorticography from human speech cortex. *Neuroimage*, doi:10.1016/j.neuroimage.2017.04.008.

Leonard, M.K., Baud, M.O.*, Sjerps, M.J.*, & Chang, E.F. (2016). Perceptual restoration of masked speech in human cortex. *Nature Communications*, 7:13619. doi:10.1038/ncomms13619.

Leonard, M.K.*, Cai, R.*, Babiak, M.C.*, Ren, A.*, & Chang, E.F*. (2016). The peri-Sylvian cortical networks underlying single word repetition revealed by electrocortical stimulation and direct neural recordings. *Brain and Language*. doi:10.1016/j.bandl.2016.06.001.

- Moses, D.A., Mesgarani, N., **Leonard, M.K.**, & Chang, E.F. (2016). Neural speech recognition: Continuous phoneme decoding using spatiotemporal representations of human cortical activity. *Journal of Neural Engineering*, 13(5), 056004.
- Leonard, M.K.** & Chang, E.F. (2016). Neural organization of speech perception: Intracranial Recording. In G. Hickok & S.L. Small (Eds.), *Neurobiology of Language*. Elsevier.
- Leonard, M.K.**, Bouchard, K.E., Tang, C., & Chang, E.F. (2015). Dynamic encoding of speech sequence probability in human temporal cortex. *The Journal of Neuroscience*, 35(18): 7203-7214.
- Cibelli, E., **Leonard, M.K.**, Johnson, K., & Chang, E.F. (2015). The influence of lexical statistics on temporal lobe cortical dynamics during spoken word listening. *Brain and Language*, 147, 66-75.
- Ferjan Ramirez, N., **Leonard, M.K.**, Torres, C., Halgren, E., & Mayberry, R.I. (2014). Neural language processing in adolescent first-language learners: Longitudinal case studies in American Sign Language. *Cerebral Cortex*, doi: 10.1093/cercor/bhu273.
- Bridgman, M.W., Brown, W.S., Spezio, M.L., **Leonard, M.K.**, Adolphs, R., & Paul, L.K. (2014). Facial emotion recognition in primary agenesis of the corpus callosum. *Journal of Neurodevelopmental Disorders*, 6(1), 32: 1-14.
- Leonard, M.K.** & Chang, E.F. (2014). Dynamic speech representations in the human temporal lobe. *Trends in Cognitive Sciences*, 18(9): 472-479.
- Leonard, M.K.***, Ferjan Ramirez, N.*, Torres, C., Hatrak, M., Mayberry, R.I., & Halgren, E. (2013). Neural stages of spoken, written, and signed word processing in second language learners. *Frontiers in Human Neuroscience*, 7:322. doi: 10.3389/fnhum.2013.00322.
- Chan, A.M., Dykstra, A.R., Jayaram, V., **Leonard, M.K.**, Travis, K.E., Gygi, G., Baker, J.M., Eskandar, E., Hochberg, L.R., Halgren, E., & Cash, S.S. (2013). Speech-specific tuning of neurons in human superior temporal gyrus. *Cerebral Cortex*, 24(10): 2679-2693.
- Ferjan Ramirez, N.*, **Leonard, M.K.***, Torres, C., Hatrak, M., Halgren, E., & Mayberry, R.I. (2013). Neural language processing in adolescent first-language learners. *Cerebral Cortex*, 24(10): 2772-2783.
- Travis, K.E., Curran, M., Torres, C., **Leonard, M.K.**, Brown, T.T., Dale, A.M., Elman, J.L., & Halgren, E. (2013). Age-related changes in tissue signal properties within cortical areas important for word understanding in 12-19 month old infants. *Cerebral Cortex*, 24(7): 1948-1955.
- Ferjan Ramirez, N.*, **Leonard, M.K.***, Halgren, E., & Mayberry, R.I. (2013) The neural correlates of childhood linguistic isolation. *Proceedings of the 37th Boston University Conference on Language Development*, 110-121.
- Travis, K.E.* , **Leonard, M.K.***, Chan, A.M.* , Torres, C., Sizemore, M., Qu, Z., Eskandar, E., Dale, A.M., Elman, J.L., Cash, S.S., & Halgren, E. (2012). Independence of early speech processing from word meaning. *Cerebral Cortex*, 23(10): 2370-2379.

Leonard, M.K.*, Ferjan Ramirez, N.*, Torres, C., Travis, K.E., Hatrak, M., Mayberry, R.I., & Halgren, E. (2012). Signed words in the congenitally deaf evoke typical late lexicosemantic responses with no early visual responses in left superior temporal cortex. *Journal of Neuroscience*, 32(28), 9700-9705.

Leonard, M.K., Torres, C., Travis, K.E., Brown, T.T., Hagler, D.J., Dale, A.M., Elman, J.L., & Halgren, E. (2011). Language proficiency modulates the recruitment of non-classical language areas in bilinguals. *PLoS ONE*, 6(3): e18240. doi:10.1371/journal.pone.0018240.

Travis, K.E., **Leonard, M.K.**, Brown, T.T., Hagler, D.J., Curran, M., Dale, A.M., Elman, J.L., & Halgren, E. (2011). Spatiotemporal neural dynamics of word understanding in 12- to 18-month-old infants. *Cerebral Cortex*, 21(8): 1832-1839.

McDonald, C.R., Thesen, T., Carlson, C., Blumberg, M., Girard, H.M., Trongnetrpunya, A., Sherfey, J., Devinsky, J., Kuzniecky, R., Cash, S., **Leonard, M.K.**, Hagler, D.J., Dale, A.M., & Halgren, E. (2010). Multimodal imaging of repetition priming: Using fMRI, MEG, and intracranial EEG to reveal spatiotemporal profiles of word processing. *NeuroImage*, 53(2):707-717.

Leonard, M.K., Brown, T.T., Travis, K.E., Gharapetian, L., Hagler, D.J., Dale, A.M., Elman, J.L., & Halgren, E. (2010). Spatiotemporal dynamics of bilingual word processing. *NeuroImage*, 49(4): 3286-3294.

In Preparation

Leonard, M.K., Lucas, B., Blau, S., Corina, D.P., & Chang, E.F. (In Preparation). Cortical encoding of sensorimotor and linguistic features in sign language.

Dichter, B., Breshears, J.D., **Leonard, M.K.**, & Chang, E.F. (In Preparation). Cortical representation of vocal pitch production.

Sjerps, M.J., **Leonard, M.K.**, Hamilton, L.S., & Chang, E.F. (In Preparation). Hierarchically organized distinctive features are the dominant representations of perceived speech.

Blau, S., **Leonard, M.K.**, Chang, E.F., & Corina, D. (In Preparation). Reorganization in motor and sensory cortex of a deaf signer: Effects of language modality.

Leonard, M.K., Morrill, R., & Chang, E.F. (In Preparation). Phoneme sequence probability encoding during speech production.

Brown, T.T., Erhart, M., **Leonard, M.K.**, Travis, K.E., & Halgren, E. (In Preparation). Developmental changes in the dynamic functional brain organization for the semantic representation of objects.

FUNDING

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|-----------|---|
| 2017-2020 | DARPA Targeted Neuroplasticity Training (TNT)
(Role: Co-PI, human studies team leader; Lead PI: Xiaoqin Wang, Johns Hopkins) |
| 2017-2022 | NIH R01: Neural Systems in Auditory and Speech Categorization
(Role: Co-I; PI: Bharath Chandrasekaran, UT Austin) |
| 2013-2016 | NIH Postdoctoral Fellowship (F32 NRSA)
(Grant Number 1F32DC013486; "The Neurophysiological Dynamics of Lexical and Sub-Lexical Representations") |

- 2012-2013 Kavli Institute for Brain and Mind Innovative Research Award
(PI: R. Mayberry; “The development of neural language processing after childhood”)
- 2009-2012 National Science Foundation Research Grant (Award # 0924539)
(PI: E. Halgren; “Spatiotemporal Dynamics of Word Processing in Bilinguals”)
- 2009-2010 Center for Research in Language Pre-doctoral Fellowship
(NIH Training Grant: T-32 DC00041)
- 2008-2010 UCSD Chancellor’s Collaboratories Grant
(Funding for four graduate students and one undergraduate research assistant)
- 2008-2009 Institute for Neural Computation Pre-doctoral Fellowship
(NIH Training Grant: T-32 MH20002)
- 2008-2009 Kavli Institute for Brain and Mind Innovative Research Award
(PI: **M.K. Leonard**; “The spatiotemporal dynamics of bilingual lexical representation”)
- 2007-2009 Kavli Institute for Brain and Mind Innovative Research Award
(PI: K. Travis; “Joint attention and the neural correlates of word learning in human infants”)

HONORS, AWARDS, FELLOWSHIPS

- 2013-2016 UCSF, NIH Postdoctoral Fellowship (NRSA)
- 2009-2010 UCSD, Center for Research in Language Pre-doctoral Fellowship
- 2008-2009 UCSD, Institute for Neural Computation Pre-doctoral Fellowship
- 2006-2008 UCSD, Glushko Fellowship
- 2006 Occidental College, Phi Beta Kappa
- 2006 Occidental College, College Honors, Honors in Cognitive Science
- 2004 Occidental College, Cox Award (given to two distinguished sophomores)

TEACHING

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|------|-------------|---|
| 2015 | PSY 351 | Neuropsychology, USF (<i>Guest Lecture</i>) |
| 2013 | PSY 230 | Developmental Psychology, UCSD (<i>Guest Lecture</i>) |
| 2012 | HDP 120 | Language Development, UCSD (<i>Guest Lecture</i>) |
| 2011 | HDP 120 | Language Development, UCSD (<i>Guest Lecture</i>) |
| 2008 | CogSci 1 | Introduction to Cognitive Science, UCSD (<i>TA</i>) |
| 2008 | CogSci 107B | Systems Neuroscience, UCSD (<i>TA</i>) |
| 2007 | CogSci 17 | Neurobiology of Cognition, UCSD (<i>TA</i>) |
| 2007 | CogSci 107C | Cognitive Neuroscience, UCSD (<i>TA</i>) |
| 2007 | CogSci 107B | Systems Neuroscience, UCSD (<i>TA</i>) |

CLINICAL EXPERIENCE

- 2012-Present Intraoperative and chronic epilepsy testing, UCSF
- 2011-2012 Neuropsychological Examiner (Spanish), Secondary Prevention of Small Subcortical Strokes (SPS3)

RESEARCH INTERESTS

human neurophysiology, speech perception, lexical representation, bilingualism, sign language, electrocorticography (ECoG), electrocortical stimulation (ECS), magnetoencephalography (MEG)

TALKS

- Leonard, M.K.**, Cai, R., Babiak, M.C., Ren, A., & Chang, E.F. (2016). The peri-Sylvian cortical networks underlying single word repetition revealed by electrocortical stimulation and direct neural recordings. *Sensorimotor Speech Processing Symposium*, University of Oxford, London.
- Dichter, B.K., **Leonard, M.K.**, & Chang, E.F. (2016). Cortical representation of vocal pitch production. *Sensorimotor Speech Processing Symposium*. University of Oxford, London.
- Sjerps, M.J., **Leonard, M.K.**, Hamilton, L.S., Johnson, K., & Chang, E.F. (2016). Hierarchical, acoustically-grounded, distinctive features are the dominant representations of perceived speech. *Neurobiology of Language*, London.
- Leonard, M.K.**, Baud, M.O., Sjerps, M.J., & Chang, E.F. (2016) Perceptual restoration of masked speech in human cortex. *11th Annual Hearing Symposium*, Center for Hearing Research, UC Irvine.
- Leonard, M.K.**, Baud, M.O., Sjerps, M.J., & Chang, E.F. (2016) Perceptual restoration of masked speech in human cortex. *Invited talk at the VA (Host: Marc Ettlinger)*, Department of Veterans Affairs, Martinez, CA.
- Davenport, T.S., Ferjan Ramirez, N., **Leonard, M.K.**, Mayberry, R.I., & Halgren, E. (2015). Neural effects of childhood language deprivation on picture processing: Insights from adolescent first-language learners. *Cognitive Science 2015*, Pasadena.
- Mayberry, R.I., Davenport, T.S., Ferjan Ramirez, N., **Leonard, M.K.**, & Halgren, E. (2014). Neural language processing in adolescent first-language learners: Case studies in American Sign Language. *39th Boston University Conference on Language Development*, Boston.
- Davenport, T.S., Ferjan Ramirez, N., **Leonard, M.K.**, Mayberry, R.I., & Halgren, E. (2014). Effects of childhood language deprivation on picture processing: Insights from adolescent first-language learners. *Neurobiology of Language*, Amsterdam.
- Mayberry, R.I., Ferjan Ramirez, N., **Leonard, M.K.**, Davenport, T., & Halgren, E. (2014). Neural language processing in adolescent first-language learners: Case studies in American Sign Language. *38th Boston University Conference on Language Development*, Boston.
- Leonard, M.K.**, Bouchard, K.E., & Chang, E.F. (2013). Human superior temporal gyrus encoding of speech sequence probabilities. *The Journal of the Acoustical Society of America* 134.5 (2013): 4234-4234.
- Cibelli, E., **Leonard, M.K.**, & Chang, E.F. (2013). Neural evidence for shared phonetic, phonological, and lexical processing of words and pseudowords. *The Journal of the Acoustical Society of America* 134.5 (2013): 4233-4233.
- Leonard, M.K.** & Travis K.E. (2011). Early and late stages of word processing across development, languages, and modalities. *Invited talk at The Neurosciences Institute (Host: Ani Patel)*, La Jolla, USA.

Leonard, M.K., Brown, T.T., Travis, K.E., Gharapetian, L., Erhart, M., Halgren, E., & Elman, J. (2009). The spatiotemporal dynamics of bilingual lexico-semantic representations. *International Conference on Neurolinguistics*, Bangor, Wales.

Leonard, M.K. (2009). Neural substrates of bilingual lexico-semantic knowledge. *Cognitive Neuroscience Annual Spring Retreat*, La Jolla, USA.

Leonard, M.K., Elman, J., Halgren, E., Brown, T.T., Travis, K.E., Mayberry, R. (2009). Neural substrates of bilingual lexico-semantic knowledge. *Kavli Institute for Brain and Mind Symposium*, La Jolla, USA.

POSTERS (*Equally contributing authors)

Leonard, M.K., Lucas, B., Blau, S., Corina, D.P., & Chang, E.F. (2016). Cortical encoding of sensorimotor and linguistic features in sign language. *Poster at Society for the Neurobiology of Language*, London.

Leonard, M.K., Lucas, B., Blau, S., Corina, D.P., & Chang, E.F. (2016). Cortical encoding of sensorimotor and linguistic features in sign language. *Poster at Society for Neuroscience*, San Diego.

Dichter, B., **Leonard, M.K.**, & Chang, E.F. (2016). Cortical representation of vocal pitch production. *Poster at Society for the Neurobiology of Language*, London.

Moses, D.A., Mesgarani, N., **Leonard, M.K.**, & Chang, E.F. (2016). Neural speech recognition: Continuous phoneme decoding using spatiotemporal representations of human cortical activity. *Poster at Society for Neuroscience*, San Diego.

Sjerps, M.J., **Leonard, M.K.**, Hamilton, L.S., & Chang, E.F. (2016). Hierarchically organized distinctive features are the dominant representations of perceived speech. *Poster at Society for the Neurobiology of Language*, London.

Leonard, M.K., Sjerps, M., Baud, M., & Chang, E.F. (2015). Perceptual restoration of missing speech sounds in human auditory cortex. *Poster at Society for Neuroscience*, Chicago.

Leonard, M.K., Sjerps, M., Baud, M., & Chang, E.F. (2015). Perceptual restoration of missing speech sounds in human auditory cortex. *Poster at Society for the Neurobiology of Language*, Chicago.

Leonard, M.K., Baud, M., Sjerps, M., & Chang, E.F. (2015). Perceptual restoration of missing speech sounds in human auditory cortex. *The Assembly and Function of Neuronal Circuits*, Ascona.

Leonard, M.K., Morrill, R., & Chang, E.F. (2014). Phoneme sequence probability encoding during speech production. *Poster at Neurobiology of Language*, Amsterdam.

Davenport, T., Ferjan Ramirez, N., **Leonard, M.K.**, Halgren, E., & Mayberry, R.I. (2014). Effects of childhood language deprivation on picture processing: Insights from adolescent first-language learners. *Poster at Neurobiology of Language*, Amsterdam.

Leonard, M.K., Bouchard, K., & Chang, E.F. (2013). Human superior temporal gyrus encoding of speech sequence probabilities. *Poster at the American Acoustical Society*, San Francisco.

- Cibelli, E., **Leonard, M.K.**, & Chang, E.F. (2013). Neural evidence for shared phonetic, phonological, and lexical processing of words and pseudowords. *Poster at the American Acoustical Society*, San Francisco.
- Leonard, M.K.**, Bouchard, K., & Chang, E.F. (2013). Speech statistics mediate the transformation from acoustic to word-level neural representations. *Poster at Society for Neuroscience*, San Diego.
- Cibelli, E., **Leonard, M.K.**, Johnson, K., & Chang, E.F. (2013). Word and pseudoword processing in the left ventral stream. *Poster at Neurobiology of Language*, San Diego.
- Ferjan Ramirez, N., **Leonard, M.K.**, Torres, C., Halgren, E., & Mayberry, R.I. (2013). Neural language processing in adolescent first-language learners: Longitudinal case studies in American Sign Language. *Poster at Neurobiology of Language*, San Diego.
- Corina, D., Blau, S., Lamarr, T., **Leonard, M.K.**, & Chang, E.F. (2013). Shared cortical representation of the hands and face in a Deaf Signer: Evidence from cortical stimulation mapping. *Poster at Neurobiology of Language*, San Diego.
- Leonard, M.K.**, Bouchard, K., & Chang, E.F. (2013). Human superior temporal gyrus encoding of speech sequence probabilities. *Poster at Neurobiology of Language*, San Diego.
- Corina, D., Blau, S., Lamarr, T., **Leonard, M.K.**, & Chang, E.F. (2013). Cortical stimulation mapping in a Deaf signer. *Poster at TISLR 11*, London.
- Leonard, M.K.***, Travis, K.E.* , Torres, C., Qu, Z., Sizemore, M., Dale, A.M., Elman, J.L., & Halgren, E. (2011). Neural Separation of Acousto-phonemic from Lexico-semantic Word Encoding. *Poster at Neurobiology of Language*, Annapolis.
- Travis, K.E.* , **Leonard, M.K.***, Torres, C., Qu, Z., Sizemore, M., Dale, A.M., Elman, J.L., & Halgren, E. (2011). Neural Separation of Acousto-phonemic from Lexico-semantic Word Encoding. *Poster at Society for Neuroscience*, Washington, D.C.
- Leonard, M.K.***, Ferjan Ramirez, N.* , Torres, C., Mayberry, R.I., & Halgren, E. (2011). Spatiotemporal neural dynamics of sign and speech processing. *Poster at Neurobiology of Language Conference 2011*, Annapolis.
- Leonard, M.K.***, Ferjan Ramirez, N.* , Torres, C., Mayberry, R.I., & Halgren, E. (2011). Spatiotemporal neural dynamics of sign and speech processing. *Poster at European Society for Cognitive Psychology 2011*, San Sebastian.
- Travis, K.E., **Leonard, M.K.**, Brown, T.T., Hagler, D.J., Dale, A.M., Elman, J.L., & Halgren, E. (2011). Investigating the spatiotemporal neural dynamics of lexico-semantic activity in 12-18 month old infants by combining magnetoencephalography and magnetic resonance imaging. *Poster at Annual Meeting of The Acoustical Society of America*, Seattle.
- Leonard, M.K.**, Torres, C., Travis, K.E., Brown, T.T., Hagler, D.J., Dale, A.M., Elman, J.L., & Halgren, E. (2011). Language proficiency modulates the recruitment of non-classical language areas in bilinguals. *Poster at Cognitive Neuroscience Society*, San Francisco.

- Travis, K.E., **Leonard, M.K.**, Brown, T.T., Hagler, D.J., Curran, M.M., Dale, A.M., Elman, J.L., & Halgren, E. (2010). Lexico-semantic processes indexed by the infant N400m rely on similar left frontotemporal language areas as in adults. *Poster at Society for Neuroscience*, San Diego.
- Travis, K.E., **Leonard, M.K.**, Brown, T.T., Hagler, D.J., Curran, M.M., Dale, A.M., Elman, J.L., & Halgren, E. (2010). Lexico-semantic processes indexed by the infant N400m rely on similar left frontotemporal language areas as in adults. *Poster at Neurobiology of Language Conference*, San Diego.
- Leonard, M.K.**, Torres, C., Travis, K.E., Brown, T.T., Hagler, D.J., Dale, A.M., Elman, J.L., & Halgren, E. (2010). Bilateral posterior activity is modulated by proficiency in the bilingual brain. *Poster at Society for Neuroscience*, San Diego.
- Leonard, M.K.**, Torres, C., Travis, K.E., Brown, T.T., Hagler, D.J., Dale, A.M., Elman, J.L., & Halgren, E. (2010). Bilateral posterior activity is modulated by proficiency in the bilingual brain. *Poster at Neurobiology of Language Conference*, San Diego.
- Travis, K.T., Ellis, E.M., Curran, M.M., Garvin, A.N., **Leonard, M.K.**, Sherfey, J.S., Evans, J.L., Halgren, E., & Elman, J. (2010). N400m-like Activity to Auditory Words Observed in 14 to 18 Month old Infants With Varying Language Abilities. *Poster at International Society on Infant Studies*, Baltimore.
- Travis, K., Halgren, E., **Leonard, M.K.**, Brown, T.T., Hagler, D.J., Dale, A.M., & Elman, J. (2009). Multimodal neuroimaging of early word knowledge in human infants: A novel MEG-MRI approach reveals N400m- like MEG response. *Poster at Society for Research in Child Development*, Denver.
- Travis, K., Halgren, E., **Leonard, M.K.**, Brown, T.T., Hagler, D.J., Dale, A.M., & Elman, J. (2009). Multimodal neuroimaging of early word knowledge in human infants: A novel MEG-MRI approach reveals N400m- like MEG response. *Poster at Cognitive Neuroscience Society*, San Francisco.
- Leonard, M.K.**, Brown, T.T., Travis, K., Gharapetian, L., Erhart, M., Halgren, E., & Elman, J. (2009). The spatiotemporal dynamics of bilingual lexico-semantic representations. *Poster at Cognitive Neuroscience Society*, San Francisco.
- Travis, K., **Leonard, M.K.**, Brown, T.T., Hagler, D.J., Huang, M., Dale, A.M., Halgren, E., & Elman, J. (2008). Multimodal neuroimaging of early word knowledge in human infants: A novel MEG-MRI approach. *Poster at Society for Neuroscience*, Washington, D.C.
- Bridgman, M.W., Spezio, M., Brown, W.S., **Leonard, M.K.**, Adolphs, R., & Paul, L.K. (2008). Eye-tracking during facial emotion recognition in primary agenesis of the corpus callosum. *Poster at 36th Annual Meeting of the International Neuropsychological Society*, Waikoloa, Hawai'i.
- Järvinen-Pasley, A., Tsuchiya, N., **Leonard, M.K.**, Yam, A., Hill, K., Galaburda, A., Mills, D., Reiss, A.L., Korenberg, J.R., Bellugi, U. (2007). Genes, Neural Systems, and Social Behavior: Automatic Correlates of Processing Upright and Inverted Affective Faces in Williams Syndrome. *Poster at Society for Neuroscience*, San Diego.
- Leonard, M.K.**, Adolphs, R., Spezio, M., Paul, L. (2007). Visual Search in Individuals with Agenesis of the Corpus Callosum. *Poster at Society for Neuroscience*, San Diego.