

Annual Report - 2017

Award ID: 1144399

Institution: University of Connecticut

Title: IGERT: Language plasticity - Genes, Brain, Cognition and Computation

Principal Investigator(s)

Name: James S. Magnuson

Project Years Active: 2012-2013, 2014-2015, 2015-2016, 2016-2017

Co-Principal Investigator(s) or Trainee/Associate Advisor(s)

Name: Gerry Altmann

Project Years Active: 2014-2015, 2016-2017

Role in Project: Trainee/Associate Advisor

Name: Heather Bortfeld

Project Years Active: 2012-2013

Role in Project: Trainee/Associate Advisor

Name: Zeljko Boskovic

Project Years Active: 2014-2015, 2015-2016, 2016-2017

Role in Project: Trainee/Associate Advisor

Name: Andrea Calabrese

Project Years Active: 2013-2014, 2014-2015, 2015-2016, 2016-2017

Role in Project: Trainee/Associate Advisor

Name: Carl Coelho

Project Years Active: 2012-2013, 2013-2014, 2014-2015, 2015-2016, 2016-2017

Role in Project: Co-PI and Trainee/Associate Advisor

Name: Marie Coppola

Project Years Active: 2012-2013, 2013-2014, 2014-2015, 2015-2016, 2016-2017

Role in Project: Trainee/Associate Advisor

Name: Inge-Marie Eigsti

Project Years Active: 2012-2013, 2015-2016, 2016-2017

Role in Project: Trainee/Associate Advisor

Name: Deborah Fein

Project Years Active: 2012-2013, 2015-2016, 2016-2017

Role in Project: Trainee/Associate Advisor

Name: Roslyn H. Fitch

Project Years Active: 2012-2013, 2014-2015, 2015-2016, 2016-2017

Role in Project: Co-PI and Trainee/Associate Advisor

Name: Jon Gajewski
Project Years Active: 2015-2016, 2016-2017
Role in Project: Trainee/Associate Advisor

Name: Bernard G. Grela
Project Years Active: 2012-2013, 2015-2016, 2016-2017
Role in Project: Trainee/Associate Advisor

Name: Elena L. Grigorenko
Project Years Active: 2012-2013, 2015-2016
Role in Project: Trainee/Associate Advisor

Name: Nicole Landi
Project Years Active: 2013-2014, 2014-2015, 2015-2016, 2016-2017
Role in Project: Trainee/Associate Advisor

Name: Edward Large
Project Years Active: 2013-2014, 2014-2015, 2015-2016, 2016-2017
Role in Project: Trainee/Associate Advisor

Name: Diane C. Lillo-Martin
Project Years Active: 2012-2013, 2015-2016, 2016-2017
Role in Project: Trainee/Associate Advisor

Name: Joseph J. Loturco
Project Years Active: 2012-2013, 2015-2016
Role in Project: Trainee/Associate Advisor

Name: Emily B. Myers
Project Years Active: 2012-2013, 2013-2014, 2014-2015, 2015-2016, 2016-2017
Role in Project: Trainee/Associate Advisor

Name: Letitia R. Naigles
Project Years Active: 2012-2013, 2013-2014, 2014-2015, 2015-2016, 2016-2017
Role in Project: Trainee/Associate Advisor

Name: Ken Pugh
Project Years Active: 2012-2013, 2015-2016, 2016-2017
Role in Project: Co-PI and Trainee/Associate Advisor

Name: Pradeep Ramanathan
Project Years Active: 2012-2013, 2014-2015
Role in Project: Trainee/Associate Advisor

Name: Heather L. Read
Project Years Active: 2012-2013, 2015-2016, 2016-2017
Role in Project: Trainee/Associate Advisor

Name: Jay Rueckl
Project Years Active: 2012-2013, 2015-2016, 2016-2017
Role in Project: Trainee/Associate Advisor

Name: Adam Sheya

Project Years Active: 2013-2014, 2015-2016, 2016-2017

Role in Project: Trainee/Associate Advisor

Name: Erika Skoe

Project Years Active: 2013-2014, 2015-2016, 2016-2017

Role in Project: Trainee/Associate Advisor

Name: William B. Snyder

Project Years Active: 2012-2013, 2016-2017

Role in Project: Co-PI and Trainee/Associate Advisor

Name: Tammie Spaulding

Project Years Active: 2012-2013, 2015-2016, 2016-2017

Role in Project: Trainee/Associate Advisor

Name: Jon Sprouse

Project Years Active: 2013-2014, 2014-2015, 2015-2016, 2016-2017

Role in Project: Trainee/Associate Advisor

Name: Whitney Tabor

Project Years Active: 2012-2013, 2015-2016, 2016-2017

Role in Project: Trainee/Associate Advisor

Name: Rachel M. Theodore

Project Years Active: 2013-2014, 2014-2015, 2015-2016, 2016-2017

Role in Project: Trainee/Associate Advisor

Name: Susanne Wurmbrand

Project Years Active: 2015-2016, 2016-2017

Role in Project: Trainee/Associate Advisor

Name: Eling Yee

Project Years Active: 2014-2015, 2015-2016, 2016-2017

Role in Project: Trainee/Associate Advisor

Trainees

Name: Brian C. Castelluccio

Total number of months funded: 16

Project Years Active:

2012-2013 Project Year - Trainee supported for 9 months

2013-2014 Project Year - Trainee supported for 7 months

2014-2015 Project Year - Trainee supported for 0 months

2015-2016 Project Year - Trainee supported for 0 months

2016-2017 Project Year - Trainee supported for 0 months

Name: Nicole S. Cruse

Total number of months funded: 21

Project Years Active:

2015-2016 Project Year - Trainee supported for 9 months

2016-2017 Project Year - Trainee supported for 12 months

Name: Julia R. Drouin

Total number of months funded: 20

Project Years Active:

2014-2015 Project Year - Trainee supported for 8 months

2015-2016 Project Year - Trainee supported for 3 months

2016-2017 Project Year - Trainee supported for 9 months

Name: Zachary D. Ekves

Total number of months funded: 20

Project Years Active:

2014-2015 Project Year - Trainee supported for 8 months

2015-2016 Project Year - Trainee supported for 3 months

2016-2017 Project Year - Trainee supported for 9 months

Name: Pamela Fuhrmeister

Total number of months funded: 21

Project Years Active:

2015-2016 Project Year - Trainee supported for 9 months

2016-2017 Project Year - Trainee supported for 12 months

Name: Deanna L. Gagne

Total number of months funded: 7

Project Years Active:

2012-2013 Project Year - Trainee supported for 0 months

2013-2014 Project Year - Trainee supported for 7 months

2014-2015 Project Year - Trainee supported for 0 months

2015-2016 Project Year - Trainee supported for 0 months

2016-2017 Project Year - Trainee supported for 0 months

Name: Joshua Green

Total number of months funded: 22

Project Years Active:

2013-2014 Project Year - Trainee supported for 7 months

2014-2015 Project Year - Trainee supported for 12 months

2015-2016 Project Year - Trainee supported for 3 months

2016-2017 Project Year - Trainee supported for 0 months

Name: Erica M. Israel

Total number of months funded: 11

Project Years Active:

2014-2015 Project Year - Trainee supported for 8 months

2015-2016 Project Year - Trainee supported for 3 months

Name: Theodore A. Jenkins

Total number of months funded: 16

Project Years Active:

2012-2013 Project Year - Trainee supported for 9 months

2013-2014 Project Year - Trainee supported for 7 months

2014-2015 Project Year - Trainee supported for 0 months

2015-2016 Project Year - Trainee supported for 0 months
2016-2017 Project Year - Trainee supported for 0 months

Name: Kyra L. Krass

Total number of months funded: 21

Project Years Active:

2015-2016 Project Year - Trainee supported for 9 months
2016-2017 Project Year - Trainee supported for 12 months

Name: Andre M. Lindsey

Total number of months funded: 22

Project Years Active:

2013-2014 Project Year - Trainee supported for 7 months
2014-2015 Project Year - Trainee supported for 12 months
2015-2016 Project Year - Trainee supported for 3 months
2016-2017 Project Year - Trainee supported for 0 months

Name: Sahil Luthra

Total number of months funded: 9

Project Years Active:

2016-2017 Project Year - Trainee supported for 9 months

Name: Meaghan V. Mauer

Total number of months funded: 9

Project Years Active:

2016-2017 Project Year - Trainee supported for 9 months

Name: Iliana Meza-Gonzalez

Total number of months funded: 17

Project Years Active:

2013-2014 Project Year - Trainee supported for 7 months
2014-2015 Project Year - Trainee supported for 1 months
2015-2016 Project Year - Trainee supported for 9 months

Name: Dung H. Nguyen

Total number of months funded: 22

Project Years Active:

2013-2014 Project Year - Trainee supported for 7 months
2014-2015 Project Year - Trainee supported for 12 months
2015-2016 Project Year - Trainee supported for 3 months
2016-2017 Project Year - Trainee supported for 0 months

Name: Amanda R. Rendall

Total number of months funded: 20

Project Years Active:

2012-2013 Project Year - Trainee supported for 0 months
2013-2014 Project Year - Trainee supported for 7 months
2014-2015 Project Year - Trainee supported for 1 months
2015-2016 Project Year - Trainee supported for 9 months
2016-2017 Project Year - Trainee supported for 3 months

Name: Russell M. Richie

Total number of months funded: 16

Project Years Active:

2012-2013 Project Year - Trainee supported for 9 months

2013-2014 Project Year - Trainee supported for 7 months

2014-2015 Project Year - Trainee supported for 0 months

2015-2016 Project Year - Trainee supported for 0 months

2016-2017 Project Year - Trainee supported for 0 months

Name: Karla D. Rivera Figueroa

Total number of months funded: 9

Project Years Active:

2016-2017 Project Year - Trainee supported for 9 months

Name: Oliver M. Sawi

Total number of months funded: 22

Project Years Active:

2013-2014 Project Year - Trainee supported for 7 months

2014-2015 Project Year - Trainee supported for 12 months

2015-2016 Project Year - Trainee supported for 3 months

2016-2017 Project Year - Trainee supported for 0 months

Name: Kathleen E. Shaw

Total number of months funded: 16

Project Years Active:

2012-2013 Project Year - Trainee supported for 9 months

2013-2014 Project Year - Trainee supported for 7 months

2014-2015 Project Year - Trainee supported for 0 months

2015-2016 Project Year - Trainee supported for 0 months

2016-2017 Project Year - Trainee supported for 0 months

Name: Elizabeth A. Simmons

Total number of months funded: 21

Project Years Active:

2015-2016 Project Year - Trainee supported for 9 months

2016-2017 Project Year - Trainee supported for 12 months

Name: Garrett Smith

Total number of months funded: 22

Project Years Active:

2013-2014 Project Year - Trainee supported for 7 months

2014-2015 Project Year - Trainee supported for 12 months

2015-2016 Project Year - Trainee supported for 3 months

2016-2017 Project Year - Trainee supported for 0 months

Name: Laura A. Snider

Total number of months funded: 29

Project Years Active:

2014-2015 Project Year - Trainee supported for 8 months

2015-2016 Project Year - Trainee supported for 9 months

2016-2017 Project Year - Trainee supported for 12 months

Name: Rachael J. Steiner

Total number of months funded: 21

Project Years Active:

2015-2016 Project Year - Trainee supported for 9 months

2016-2017 Project Year - Trainee supported for 12 months

Name: Parker R. Tichko

Total number of months funded: 20

Project Years Active:

2014-2015 Project Year - Trainee supported for 8 months

2015-2016 Project Year - Trainee supported for 3 months

2016-2017 Project Year - Trainee supported for 9 months

Name: Charles S. Wasserman

Total number of months funded: 20

Project Years Active:

2014-2015 Project Year - Trainee supported for 8 months

2015-2016 Project Year - Trainee supported for 3 months

2016-2017 Project Year - Trainee supported for 9 months

Name: Kacie E. Wittke

Total number of months funded: 23

Project Years Active:

2014-2015 Project Year - Trainee supported for 8 months

2015-2016 Project Year - Trainee supported for 12 months

2016-2017 Project Year - Trainee supported for 3 months

Name: Henry G. Wolf VII

Total number of months funded: 23

Project Years Active:

2014-2015 Project Year - Trainee supported for 8 months

2015-2016 Project Year - Trainee supported for 12 months

2016-2017 Project Year - Trainee supported for 3 months

Associates

Name: Nora S. Alpers Leon

Project Years Active: 2013-2014, 2014-2015, 2015-2016, 2016-2017

Name: Emily M. Carrigan

Project Years Active: 2012-2013, 2013-2014, 2014-2015, 2015-2016, 2016-2017

Name: Pietro C. Cerrone

Project Years Active: 2015-2016, 2016-2017

Name: Iris Chin

Project Years Active: 2012-2013, 2013-2014, 2014-2015, 2015-2016, 2016-2017

Name: Jessica Contreras

Project Years Active: 2016-2017

Name: Charles P. Davis

Project Years Active: 2015-2016, 2016-2017

Name: Yoshiki Fujiwara

Project Years Active: 2016-2017

Name: Karina Gomes Bertolino

Project Years Active: 2013-2014, 2014-2015, 2015-2016, 2016-2017

Name: Anthony G. Goodwin

Project Years Active: 2012-2013, 2013-2014, 2014-2015, 2015-2016, 2016-2017

Name: Alexis R. Johns

Project Years Active: 2012-2013, 2013-2014, 2014-2015, 2015-2016, 2016-2017

Name: Sergey A. Kornilov

Project Years Active: 2012-2013, 2013-2014, 2014-2015, 2015-2016, 2016-2017

Name: Pavel Koval

Project Years Active: 2015-2016, 2016-2017

Name: Anish M. Kurian

Project Years Active: 2012-2013, 2013-2014, 2014-2015, 2015-2016, 2016-2017

Name: Lily Kwok

Project Years Active: 2016-2017

Name: Monica Li

Project Years Active: 2014-2015, 2015-2016, 2016-2017

Name: Gabriel A. Martinez Vera

Project Years Active: 2015-2016, 2016-2017

Name: Nicholas Monto

Project Years Active: 2015-2016, 2016-2017

Name: Hannah M. Morrow

Project Years Active: 2016-2017

Name: Ashley Parker

Project Years Active: 2016-2017

Name: Roberto Petrosino

Project Years Active: 2013-2014, 2014-2015, 2015-2016, 2016-2017

Name: Yanina Prystauka

Project Years Active: 2015-2016, 2016-2017

Name: Kayleigh Ryherd

Project Years Active: 2014-2015, 2015-2016, 2016-2017

Name: Ashlee M. Shaw

Project Years Active: 2012-2013, 2013-2014, 2014-2015, 2015-2016, 2016-2017

Name: Brendan Sugrue

Project Years Active: 2016-2017

Name: Yuta Tatsumi

Project Years Active: 2015-2016, 2016-2017

Name: Lisa C. Tecoulesco

Project Years Active: 2016-2017

Name: Dongnhu T. Truong

Project Years Active: 2012-2013, 2013-2014, 2014-2015, 2015-2016, 2016-2017

Name: Shuyan Wang

Project Years Active: 2016-2017

Name: Yi Wei

Project Years Active: 2015-2016, 2016-2017

Accomplishments and Contributions of the IGERT

Interdisciplinary Research Achievements

First Achievement: IGERT fellow Richie (DEV) and co-advisors Coppola (DEV/LING) and Tabor (PAC) are investigating the how social network structure determines rate of conventionalization in emerging language systems (homesign, sign language, and artificial lab-based gesture systems). This work builds on previous IGERT projects that showed converging results from naturalistic data from homesigners and signers in Nicaragua with computational modeling results (published in Richie et al. 2014a, 2014b). Subjects participate in one of 2 interaction networks where they must generate gestures to refer to common objects. Conventions emerge through repeated interactions among different subsets of participants, with networks determined by pairs scheduled to communicate. Network structures determine whether and how quickly conventions emerge. Richie presented this work as a talk in a featured session at the CUNY Human Sentence Processing Conference (acceptance rate 11%), and a manuscript is under review.

Second Achievement: With support from IGERT innovation funds, fellow Wittke completed a cross-disciplinary project with her breadth mentor (Naigles, DEV) and Autism Phenome Project researchers at the MIND Institute (UC Davis). This study explored language phenotypes in ASD using spontaneous language samples. Wittke discovered that grammatical language abilities in ASD can be particularly impaired in some children with this diagnosis, despite intact vocabulary and normal nonverbal IQ. One intriguing finding from this project was that some children with ASD persist in overgeneralizing the rule for English past tense (e.g., applying it to irregular verbs like "go" [goed]) long after most children learn to use the rule productively while using

appropriate past tense forms for irregular verbs. This project was recently published in *Frontiers in Psychology* (Wittke et al. [2017], "Grammatical Language Impairment in Autism Spectrum Disorder: Exploring Language Phenotypes through Spontaneous Language Samples").

Third Achievement: An IGERT project involving evaluation of acoustic processing in a *Cntnap2* KO mouse ASD model (Fitch, Eigsti, Rendall) has expanded to include other mouse ASD models (*TS2-Neo*, *Shank3*), as well as collaborations with other investigators. Drs. Fitch [BNS] and Eigsti [CLIN] and IGERT fellows in their labs (Rendall, Castelluccio) are assessing an *Usher2a* knock-out in collaboration with IGERT scientific advisory panelist, Dr. Dianne Newbury. We submitted an Explorer grant proposal to SFARI to continue the mouse work. A related collaborative project on a mouse model of Angelman syndrome with Dr. Stormy Chamberlain (UConn Health Center) that will be submitted as a grant proposal to the Angelman Foundation. These projects employ a comparative population approach to provide new insights into how language typically develops by comparison to conditions where language is specifically impaired. IGERT fellows have presented aspects of this ongoing work in multiple venues over the past year.

Education Achievements

First Achievement: The Outreach Seminar (required of all trainees) was launched last year. Co-PI Fitch & Co-I Eigsti co-taught this year, helping trainees develop scientific presentations geared to lay audiences. The scope was expanded beyond childhood to an adult retiree group and middle school classrooms. Trainees received feedback from past trainee presenters and faculty during practice presentations to the IGERT community. Presentations included didactics, hands-on activities, discussion, and take-home materials. The sessions were enthusiastically received, with teachers making comments such as "what a great enrichment opportunity for our 6th graders!" The seminar is generating goodwill in local schools. Teachers are eager for our students to return in the fall. Our trainees are also finding multiple benefits. They are becoming comfortable with non-academic audiences, and say preparing these presentations helps them better understand their own research, and the skills transfer to academic talks.

Second Achievement: Our January break short courses, "J-Term Primers", continue to boost training, team building and morale. This year we had 11 technical courses (7 led by students, the others by invited specialists, on topics ranging from EEG and fMRI analysis to deep learning and phonology), 1 professional development session, a session on career paths in academia and industry, 2 invited talks, and a very special session on policy and neuroscience by Dr. Phil Rubin (formerly of White House Science Office). These courses are important for filling gaps and jumpstarting use of new techniques and technologies. Our transition to having trainees organize the courses (and teach several) has profoundly improved attendance and impact of the courses. This annual event plays a crucial role not just in training but in building group identity and boosting morale.

Third Achievement: Fellow Ekves has learned, through IGERT support, to perform connectivity analyses and to analyze fMRI data using AFNI and Freesurfer (he has been

instrumental in ensuring correct implementation of the latter on the UConn high performance computing cluster, which will enable many labs to employ this technique). Ekves acquired these skills during an international research internship at the Basque Center on Brain, Cognition, and Language (BCBL) in Spain. His training experience with Dr. K. Paz Alonso at the BCBL has led to an ongoing collaboration involving Ekves, Paz Alonso, and IGERT faculty Altmann and Yee that has the potential to discover new insights into how events are encoded and integrated with prior memories in the brain.

Trainee Achievements

First Achievement: In Fall, 2016, IGERT fellows Wolf and Tichko and IGERT associates Monto and Li started the deep learning reading group. This group continues to meet weekly to discuss research articles, advancements in the fields of AI/deep learning, and potential collaborative projects. Group members also help each other to master new machine learning techniques and solve technical problems with programming and hardware (especially in using a deep learning workstation purchased with IGERT innovation funds, which is facilitating multiple new research collaborations). This year, the group expanded to include additional IGERT members and PhD students from outside IGERT (from Physiology and Neurobiology and Computer Science and Engineering). At least 2 projects are nearing publication.

Second Achievement: Fellow Perdue will receive an NSF Graduate Research Fellowship beginning in Fall, 2017. Her proposal builds directly on research initiated as an IGERT fellow. She will pursue interdisciplinary research investigating the relationship between reading skills, structural neural connectivity, and neurochemistry.

Third Achievement: Fellow Wolf has been awarded a Diversity Supplement from the National Institutes of Health. This award (total cost: \$41,228), which supplements NIH P01HD070837 "Neurocognitive bases of treatment resistance in developmental dyslexia" (Robert Morris, PI, Georgia State University) will allow Wolf to extend computational modeling of dyslexia in the parent grant by using emerging deep learning techniques to investigate the acquisition of orthographic knowledge (Wolf founded our reading group on Deep Learning). Preliminary results will be presented at the Annual Meeting of the Society for the Scientific Study of Reading in Halifax, Nova Scotia in July 2017. Several aspects of Wolf's IGERT training are directly relevant to this achievement, including support that allowed him to attend an international workshop on deep learning methods, as well as the opportunity to bring an expert in deep learning (Thomas Hannagan) to campus for three weeks as a visiting scholar.

International Opportunities: Achievements

Research/Educational Achievement 1: The Geneva workshop described above has laid the groundwork for continuing cooperation and collaboration between institutions. It also provided an opportunity for trainees and faculty to better understand how research and PhD training vary internationally.

Outreach Activities

Title: Brain Characteristics of Autism Spectrum Disorder: A Developmental Perspective

Media Outlet/Organization: School psychologists in local public schools

Activity Date: 10/11/2016

Description: Addressed what it means for autism to be a neurodevelopmental disorder: how the brain of a child with autism differs from the brain of a typically developing peer, and real-world cognitive consequences. Personnel: fellow Castelluccio.

Title: Brain injury support group

Media Outlet/Organization: UCONN Brain Injury Alliance of Connecticut

Activity Date: 01/01/2017

Description: Support group helps members (brain injury patients and caregivers) understand brain injury recovery and develop strategies for activities of daily living. Personnel: fellow Lindsey and Co-PI Coelho (actually meets 1st & 3rd Mondays every month).

Title: Early access to language promotes cognitive development in deaf children

Media Outlet/Organization: Language Acquisition & Learning in Deaf Children Conference

Activity Date: 04/08/2017

Description: A review of current research demonstrating the importance of early sign language introduction for deaf children. Personnel: fellow Gagne.

Title: Enrichment cluster: Our amazing brain!

Media Outlet/Organization: Local public schools

Activity Date: 05/03/2017

Description: (Also 5/10,17,24.) Covered what brains look like in humans and other animals, and how the brain works. Activities included viewing rat brain slices with microscopes and cognitive experiments. Personnel: fellow Rendall, Co-PI Fitch.

Title: Family Science Days

Media Outlet/Organization: American Association for the Advancement of Science Annual Meeting (Boston)

Activity Date: 02/18/2017

Description: Fellows Luthra and Gagne participated in the "Language Science for Everyone" activities booth organized by colleagues at Ohio State U. and U. Maryland. Activities included demonstrations of fundamental principles using computers and instruments.

Title: Fueling our brains

Media Outlet/Organization: Local public schools

Activity Date: 04/25/2017

Description: We used slides, props, and games to inform elementary school students about brain function, anatomy, and how the brain is fueled (Holly Fitch and Pamela Fuhrmeister) as part of the outreach seminar. Personnel: fellows Lindsey & Fuhrmeister.

Title: How we learn language

Media Outlet/Organization: Local public schools

Activity Date: 04/21/2017

Description: Interactive session on language and the brain using slides, props, demonstrations, and games as part of the Outreach Seminar. Personnel: associate trainees Parker, Li, and Alpers.

Title: Language & communication in autism

Media Outlet/Organization: Autism Education and Awareness Forum, Waterbury, CT

Activity Date: 09/17/2016

Description: Community forum (especially targeting families/teachers of children with ASD). I presented a talk and fielded audience questions; collected some research data for a project on children with minimal verbal skills (a questionnaire). Personnel: Eigsti.

Title: Math, Music and the Mind

Media Outlet/Organization: UConn Center for Learning in Retirement

Activity Date: 05/01/2017

Description: This presentation covered the science of music and the brain, including surprising mathematical relations between music and brain for a group of retired community members. Personnel: fellows Wasserman and Wolf, associate Monto.

Title: My CODA journey from MIT to Nicaragua

Media Outlet/Organization: Rochester Bridges to the Doctorate Program

Activity Date: 03/08/2017

Description: Presentation for Deaf students preparing for PhD programs at U. of Rochester, Rochester Institute of Technology, and National Technical Institute of the Deaf, about overcoming challenges to pursue a PhD and research career. Personnel: fellow Gagne.

Title: Social Skills Training for Children and Adolescents with Autism Spectrum Disorder

Media Outlet/Organization: School psychologists in local public schools

Activity Date: 10/11/2016

Description: Children and adolescents with autism spectrum disorder encounter challenges with social interaction. This talk covered evidence-supported interventions to improve social skills in autism. Personnel: fellow Castelluccio.

Title: The Brain!

Media Outlet/Organization: Local public schools

Activity Date: 05/03/2017

Description: Interactive presentation about the brain including games, props and demonstrations as part of the Outreach Seminar. Personnel: fellows Cruse & Krass, plus associate Petrosino.

Title: Youth with language impairments: Evidence of bias within the Connecticut juvenile court system, Implications for Judicial Stakeholders

Media Outlet/Organization: Connecticut Judicial Branch

Activity Date: 11/15/2016

Description: A review of recent research regarding how language impairments lead to negative outcomes in the juvenile court system. Personnel: co-I Spaulding.

Publications, Presentations, and Patents

Journal Articles in Refereed Publications

Altmann, G. T. (2017). Abstraction and generalization in statistical learning: implications for the relationship between semantic types and episodic tokens. *Philosophical Transactions of the Royal Society B*, 372(1711), 20160060.

Boskovic, Z. (2016). What is sent to spell-out is phases, not phrasal complements. *Linguistica*, 56, 25-56.

Braze, D., Katz, L., Magnuson, J. S., Mencl, W. E., Tabor, W., Van Dyke, J. A., Gong, T., Johns, C. L., & Shankweiler, D. P. (2016). Vocabulary does not complicate the simple view of reading. *Reading and Writing*, 29, 435-451.

Breen, M., Kaswer, L., Van Dyke, J. A., & Landi, N. (2016). Imitated prosodic fluency predicts reading comprehension ability in good and poor high school readers. *Frontiers in Psychology*, 7, 1026. doi:10.3389/fpsyg.2016.01026

Brennan, L.A., Fein, D., Como, A., Rathwell, I.C., & Chen, C-M. (2016) Use of the Modified Checklist for Autism, Revised with Follow up -Albanian to Screen for ASD in Albania. *Journal of Autism and Developmental Disorders*, 46(11), 3392-3407.

Brentari, D., M. Coppola, P. W. Cho, and A. Senghas. (2017). Handshape complexity as a precursor to phonology: Variation, emergence, and acquisition. *Language Acquisition*, 1-24. DOI:10.1080/10489223.2016.1187614

Brynskov, C., Eigsti, I. M., Jorgensen, M., Lemcke, S., Bohn, O.-S., & Krojgaard, P. (2017). Syntax and morphology in Danish-speaking children with autism spectrum disorder. *Journal of Autism and Developmental Disorders*, 47(2), 373-383. doi:10.1007/s10803-016-2962-7

Canfield, A. R., Eigsti, I. M., de Marchena, A., & Fein, D. (2016). Story goodness in adolescents with autism spectrum disorders and in optimal outcomes from ASD. *Journal of Speech, Language and Hearing Research*, 59, 533-545.

Carrigan, E.M., and Coppola, M. (2017). Successful communication does not drive language development: Evidence from adult homesign. *Cognition*, 158, 10-27.

*Castelluccio, B.C., Myers, E.B., Schuh, J.M., Eigsti, I.M. (2016). Neural substrates of processing anger in language: contributions of prosody and semantics. *Journal of*

Psycholinguistic Research, 45(6):1359-1367. doi:10.1007/s10936-015-9405-z.

Chin, I., Goodwin, M., Vosoughi, S., Roy, D., & Naigles, L. (2017) Dense Home-Based Recordings Reveal Typical and Atypical Development of Tense-Aspect in a Child with Delayed Language Development. *Journal of Child Language*. doi: 10.1017/S0305000916000696.

Cho, P., Szkudlarek, E., & Tabor, W. (2016). Discovery of a recursive principle: An artificial grammar investigation of human learning of a counting recursion language. *Frontiers in Psychology*, 7:867. doi: 10.3389/fpsyg.2016.00867

*Drouin, J. R., Theodore, R. M., & Myers, E. B. (2016). Lexically guided perceptual tuning of internal phonetic category structure. *Journal of the Acoustical Society of America*, 140, EL307-EL313.

Earle, F. S., Landi, N., & Myers, E. B. (2017). Sleep duration predicts behavioral and neural differences in adult speech sound learning. *Neuroscience Letters*. 636: 77-82.

Eigsti, I., Stevens, M. C., Schultz, R.T., Barton, M., Kelley, E., Naigles, L., Orinstein, A., Troyb, E., & Fein, D.A. (2016). Language comprehension and brain function in individuals with an optimal outcome from autism. *NeuroImage: Clinical*, Volume 10, 2016, Pages 182-191

Ellawadi, A., Fein, D., & Naigles, L. (2017). Category structure and processing in 6-year-olds with ASD. *Autism Research*. DOI:10.1002/aur.1652

Fang, S., *Smith, G., Tabor, W. (2017). The importance of situation-specific encodings: Analysis of a simple connectionist model of letter transposition effects. *Connection Science*. DOI: 10.1080/09540091.2016.1272097

Fein, D., & Baby Sibs Research Consortium. (2016). Commentary on USPSTF Final Statement on Universal Screening for Autism. *Journal of Developmental & Behavioral Pediatrics*, 37(7), 573-578.

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Patents Awarded

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Conference Publications

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Tatsumi, Y. (2016). Deverbal Compounds in Japanese: A Distributed Morphology Approach. Proceedings of FAJL 8: Formal Approaches to Japanese Linguistics, 177-187.

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Conference Presentations

Abdel-Aziz, A., Wagner, M., Fein, D., & Naigles, L. (2016, May) High and Lower Order Supported Joint Attention in Autism and Typical Development. Poster presented at the International Meetings for Autism Research, Baltimore, MD.

Abdelaziz, A., Wagner, M., Fein, D., & Naigles, L. (2017, April) Caregiver talk during different types of social interaction: Comparing TD children and children with ASD.

Poster presented at the Biennial Meetings of the Society for Research in Child Development, Austin, TX.

Abolafia, V., Mozeiko, J., & Coelho, C. (2016, November). Intensive Sound Production Treatment for Apraxia of Speech: An Analysis of Error Consistency. Poster, American Speech-Language-Hearing Association, Philadelphia, PA.

Abrams, D. N., L. B. Adamson, D. A. Fein & D. L. Robins (2016, May). Parent-Reported Social Interaction and Race, but Not Observed Social Impairments, Predict Intervention Enrollment in Toddlers Diagnosed with ASD. Poster presented at the International Meetings for Autism Research, Baltimore, MD.

Abrams, D., Adamson, L., Fein, D., and Robin, D. (2017, February). Early ASD symptoms, demographic characteristics, and adaptive skills predict change in cognitive and language abilities in toddlers with ASD. Poster presented at International Neuropsychological Society, New Orleans, LA.

Alpers-Leon, N., McIntyre, N., Mundy, P., & Naigles, L. (2016, May). Discourse Marker Usage in School-Aged Children with ASD and ADHD in a Virtual, Public Speaking Task. Poster presented at the International Meetings for Autism Research, Baltimore, MD.

Alpers-Leon, N., McIntyre, N., Mundy, P., Naigles, L. (2017, April). What Can Verbal IQ Indicate About Spoken Language of Children with Autism and ADHD in a Virtual Classroom Setting? Poster presented at the Biennial Meetings of the Society for Research in Child Development, Austin, TX.

Alpers-Leon, N., Naigles, L., McIntyre, N., & Mundy, P. (2016, June). So um . . . like what are children with autism and ADHD saying? Poster presented at the Symposium on Research in Child Language Disorders, Madison, WI.

Altmann, G.T.M. (2016, August). Representing events as changes in object state across time. Invited talk, Symposium on Event Representation. Cognitive Science Society Meeting, Philadelphia, PA.

Assgari, A., Mohiuddin, A., Theodore, R. M., & Stilp, C. (2016, May). Dissociating contributions of talker gender and acoustic variability for spectral contrast effects in vowel categorization. Poster presented at the 171st meeting of the Acoustical Society of America, Salt Lake City, Utah.

Boddy, P., Paz-Alonso, K. & Yee, E. (2016, November). Does smelling pine cones make it harder to think about strawberries? Poster presented at the Psychonomic Society's 57th Annual Meeting, Boston, MA.

Borga, J. & Snyder, W. (2016, October). On French causatives and English passives. Oral presentation, The Romance Turn, Barcelona, Spain.

Borga, J. & Snyder, W. (2016, September). On passives in English, and causatives in French. Oral presentation, Generative Approaches to Language Acquisition - North America. Urbana-Champaign, IL.

Bradbury, K. R., M. Barton & D. A. Fein (2016, May). Restricted and Repetitive Behaviors (RRBs) in Simplex and Multiplex ASD. Poster presented at the International Meeting for Autism Research, Baltimore, MD.

Bradbury, K., Robin, D., Barton, M., Stone, W., Warren, Z., & Fein, D. (2017, February). M-CHAT-R/F Performance in High-Risk Infant Siblings. Poster presented at International Neuropsychological Society, New Orleans, LA.

Canfield, A. R., & Eigsti, I. M. (2016, May). Idioms as a measure of pragmatic language abilities in adolescents with autism spectrum disorders. Paper presented at the International Meeting for Autism Research (IMFAR), Baltimore, MD.

- *Castelluccio, B., Canfield, A., & Eigsti, I. M. (2017, February). Verbal inferential reasoning in autism spectrum disorder. Paper presented at the International Neuropsychological Society, New Orleans, LA.
- *Castelluccio, B., Kapnoula, E., Edwards, J., McMurray, R., & Eigsti, I. M. (2016, May). Are there phonological consequences of auditory processing differences in autism spectrum disorder? Evidence from phonological categorization tasks. Paper presented at the International Meeting for Autism Research (IMFAR), Baltimore, MD.
- *Castelluccio, B.C., Canfield, A.R., *Green, J.J., Hogstrom, A., Kapnoula, E., Edwards, J., McMurray, B., & Eigsti, I.M. (2016, May). Are there phonological consequences of auditory processing differences in autism spectrum disorder? Evidence from phonological categorization tasks. Poster presented at the International Meeting for Autism Research, Baltimore, MD, USA.
- *Castelluccio, B.C., Stevens, M.C., Eigsti, I.M., Schultz, R.T., Naigles, L., Kelley, E., & Fein, D. (2016, May). White matter microstructure in youth with a history of autism spectrum disorder who have achieved an optimal outcome. Talk presented at the International Meeting for Autism Research, Baltimore, MD, USA.
- Chen, J., M. Barton & D. A. Fein (2016, May). Reliability of the Toddler Temperament Scale and Differences in Early Temperament Between High Risk Baby Siblings with and without Autism. Poster presented at the International Meeting for Autism Research, Baltimore, MD.
- Chin, I., Green, M., Landi, N., Irwin, J., & Naigles, L. (2016, November). Both children and adults vary in their sensitivity to different pragmatic implicatures. Poster presented at Psychonomic Society's 57th Annual Meeting, Boston, MA.
- Chin, I., Green, M., Landi, N., Irwin, J., & Naigles, L. (2017, April). Variable Sources of Children's Ability to Interpret Different Implicatures. Poster presented at the Society for Research in Child Development, Austin, TX.
- Coelho, C.A. (2017, March). Symposium: Social cognition rehabilitation: Advances for researchers and clinicians. Oral presentation, the 12th World Congress on Brain Injury, International Brain Injury Association, New Orleans, LA.
- Cordeaux, C., M. Barton & D. A. Fein (2016, May). Developmental Profiles of Children Missed By Early Autism Screening Compared to Early-Identified Peers. Poster presented at the International Meeting for Autism Research, Baltimore, MD.
- Davis, C. P., Libben, G., & Segalowitz, S. J. (2016, November). Word concreteness and the processing of compound words. Poster presented at the Annual Meeting of the Psychonomic Society, Boston, MA.
- Davis, C. P., Libben, G., & Segalowitz, S. J. (2017, March). Why not both? Form and meaning affect early visual processing of compound words. Poster presented at the 30th Annual CUNY Conference on Human Sentence Processing, Cambridge, MA.
- Dowling, C., Boddy, P. & Yee, E. (2016, November). Auditory Word Comprehension while Performing a Visual Task. Poster presented at the 24th Annual Workshop on Object Perception, Attention, and Memory. Boston, MA.
- *Drouin, J. R., Monto, N. R., Graham, S., Ose, J. & Theodore, R. M. (2016, December). Effects of attention on lexically-informed perceptual learning. Poster presented at the 172nd meeting of the Acoustical Society of American, Honolulu, Hawaii.
- *Drouin, J.R. & Theodore R.M. (2017, April). Identifying task-based constraints on lexically informed perceptual learning. Poster presented at the Eighth Annual University of Connecticut Language Festival, Storrs, CT.
- *Drouin, J.R., Ose, J., & Theodore, R.M. (2016, April). Effects of attention on

lexically-informed perceptual learning. Poster presented at the Seventh Annual University of Connecticut Language Festival, Storrs, CT.

Earle, F. S., & Myers, E. B. (2016, December). Neural changes accompanying overnight nonnative phonetic learning. Poster presented at the 172nd Annual Meeting of the Acoustical Society of America. Honolulu, HI.

Eigsti, I. M. (2016, May). Individual differences in cooperation and equality: Data from ASD. Paper presented at the International Meeting for Autism Research (IMFAR), Baltimore, MD.

Eigsti, I. M., & Mayo, J. (2016, May). Oral presentation: A brief, low-cost intervention for prosodic phrasing in high-functioning ASD: Translating science into treatment. Paper presented at the International Meeting for Autism Research (IMFAR), Baltimore, MD.

Eigsti, I. M., Mayo, J., & *Simmons, E. (2016, May). Acoustic versus naive rater impressions of speech qualities in ASD. Paper presented at the International Meeting for Autism Research (IMFAR), Baltimore, MD.

Eigsti, I. M., Mayo, J., *Simmons, E., & Magnuson, J. S. (2016, November). Qualitative versus quantitative measurement of speech in autism: Beyond the Good and the Beautiful. Paper presented at the Boston University Conference on Language Development (BUCLD), Boston, MA.

Eigsti, I., DeMayo, D., & *Simmons, E.S. (2016, May). Acoustic predictors of trained and naive rater impressions of speech qualities in ASD. Poster presented at the International Meeting for Autism Research, Baltimore, MD.

*Ekves, Z., Paz-Alonso, P.M., Hindy, N.C., Solomon, S., Altmann, G.T.M. (2016, April). Language, events, and the hippocampus: types, tokens, and token-states. Poster presented at the Cognitive Neuroscience Society, New York, NY.

Fitch, R.H. (2016, August). Animal models of neurodevelopment disruption and associated auditory processing deficits. Talk presented at AudiologyNOW! Academy Research Conference (ARC), CAPD Evaluation and Treatment, Phoenix, AZ.

Flaig, N. K., Margulis, E. H., Molfese, P. J., Kroger, C. & Large, E. W. (2016, July). Real or perceived? Neural underpinnings of expectations in the enjoyment of performances. Poster, 14th Annual International Conference on Music Perception and Cognition, San Francisco, CA.

Franck, J. & Tabor, W., (2017, January). Competence vs. performance and other fresh perspectives on the relationship between grammar and processing. Talk given at the Geneva Passives Workshop, Geneva, Switzerland.

*Fuhrmeister, P., Earle, F.S., & Myers, E.B. (2017, January). The role of sleep and native language interference in non-native speech sound learning. Paper presented at the 5th International Winter School Speech Perception and Production: Learning and Memory, Chorin, Germany.

*Fuhrmeister, P., Earle, F.S., Rueckl, J., & Myers, E.B. (2016, May). Visual and auditory native language interference in perceptual learning of non-native speech sounds. Poster presented at the May 2016 meeting of the Acoustical Society of America, Salt Lake City, UT.

Fujiwara, Y. & Shimada, H. (2017, March). On the Acquisition of Japanese Conjunction and the Semantic Subset Principle: A Preliminary Report. Paper, ICTEAP 1, the Chinese University of Hong Kong, China.

Fujiwara, Y. (2016, November). V-stranding VP-ellipsis in child Japanese," Oral presentation, BUCLD 41, Boston University, Boston, MA.

Fujiwara, Y. (2016, October). The Acquisition of V-Stranding VP-Ellipsis in Japanese,

Oral presentation, Japanese/Korean Linguistics 24, Tokyo, Japan.

Fusaroli, R., Weed, E., & Naigles, L. (2016, May) Learning to Interact: Developmental Trajectories of Linguistic Alignment in ASD. Paper presented at the International Meetings for Autism Research, Baltimore, MD.

Hall, M., Eigsti, I. M., Bortfeld, H., & Lillo-Martin, D. (2016, November). Oral presentation: Deafness doesn't impair executive function, but language deprivation might: Parent-report evidence from deaf native signers, deaf non-signers, and hearing children. Paper presented at the Boston University Conference on Language Development (BUCLD), Boston, MA.

Hogstrom, A., *Castelluccio, B.C., Canfield, A.R., *Green, J.J., Smith, M., Eigsti, I.M. (2016, May). Sensitivity to subtle changes: A signal detection analysis of memory for faces, objects, and spoken words in ASD. Poster presented at the International Meeting for Autism Research. Baltimore, MD, USA.

Hudson, N. S., Landi, N., & Cutting, L. E. (2016, July). Word Learning in good and poor comprehenders: A distinct learning profile for children with S-RCD. Poster presented at the Twenty-Third Annual Meeting of the Society for the Scientific Study of Reading, Porto, Portugal.

Hughes, S., Mozeiko, J., & Coelho, C. (2016, November). Schuell's stimulation approach administered intensively for severe, chronic aphasia. Poster, American Speech-Language-Hearing Association, Philadelphia, PA.

Irwin, J. Avery, T. Turcios, J. Brancazio, L. & Landi, N. (2016, December). A method for understanding audiovisual speech integration: Implications for children with ASD. Poster, Joint Acoustical Society of America and Acoustical Society of Japan, Honolulu, Hawaii.

Jasinska, K., Molfese, P., Kornilov, S., Mencl, E., Frost, S., Lee, M., Pugh, K., Grigorenko, E., & Landi, N. (2016, April). The BDNF Val66Met polymorphism is associated with structure and function in the developing brain with implications for children's cognitive abilities. Poster presented at the Twenty-Third Annual Meeting of the Cognitive Neuroscience Society, New York, NY.

*Jenkins, T., Coppola, M., & Coelho, C. (2016, July). Effects of gesture frequency on discourse quality in aphasia. Poster presented at the biannual meeting of the International Society for Gestural Studies, Paris, France.

*Jenkins, T., Coppola, M., & Coelho, C. (2016, May). The effects of gesture frequency on discourse in anomic aphasia: A preliminary investigation. Poster presented at the annual meeting of the Clinical Aphasiology Conference, Charlottesville, VA.

*Jenkins, T., Coppola, M., & Coelho, C. (2016, May). The interactions of gesture, aphasia, and lexical retrieval: Implications for narrative production in anomic aphasia. Poster, Clinical Aphasiology Conference, Charlottesville, VA,.

*Jenkins, T., Coppola, M., & Coelho, C. (2016, April). The effects of gesture frequency on discourse production in anomic aphasia: A preliminary investigation. Poster, Annual Meeting of the Cognitive Neuroscience Society. New York, NY.

Joergensen, G. H., Welles, R., Seng, K., Orvis, P., Ryan, J. & Yee, E. (2016, April). Body Posture and the Representation of "Abstract" Concepts. Poster presented at the Annual Meeting of the Cognitive Neuroscience Society, New York, NY.

Johnson, Z., Spriegel, M., Fein, D., Skoe, E., & Naigles, L. (2016, May). Testing Auditory Brainstem Responses in Low-Functioning Children with ASD. Poster presented at the International Meeting for Autism Research, Baltimore, MD.

Jones, M., Meagher, C., Figueiredo, M., Fein, D., Skoe, E., & Naigles, L. (2017, April)

Relationships between Auditory Brainstem Responses and Early Language in Typically Developing Children and Children with ASD. Poster presented at the Biennial Meetings of the Society for Research in Child Development, Austin, TX.

Joseph, J., Joergensen, G. H., Yee, E. & Myers, E. (2017, March). Phonetic Integration: Can visual shapes influence phoneme perception? Poster presented at the 30th Annual CUNY Conference on Human Sentence Processing, Boston, MA.

Jyotishi, M. & Naigles, L. (2017, April) Syntactic Bootstrapping: 28-month olds can shift between transitive and intransitive frames. Poster presented at the Biennial Meetings of the Society for Research in Child Development, Austin, TX.

Jyotishi, M., Fein, D., & Naigles, L. (2016, May) Word Order Understanding Guides Wh-Question Comprehension. Poster presented at the International Meetings for Autism Research, Baltimore, MD.

Khan, S., Patel, V., Vhora, M., Ryherd, K., & Landi, N. (2016, April). Characterizing novel concept learning in poor comprehenders. Poster presented at the Seventh Annual University of Connecticut Language Festival, Storrs, CT.

Kim, J. C., & Large, E. W. (2016, August). Multiple F0 estimation by gradient frequency neural networks. Talk, 6th Annual Seminar on Cognitively Based Music Informatics Research, New York, NY.

Kim, J. C., & Large, E. W. (2016, July). A nonlinear dynamical systems approach to auditory scene analysis. Poster presented at the 14th Annual International Conference on Music Perception and Cognition, San Francisco, CA.

*Krass, K. & Altmann, G. (2016, November). Verb semantics: Affordances or object states? Poster presented at the Annual Workshop on Object Perception, Attention, and Memory (OPAM), Boston, MA.

*Krass, K. & Altmann, G. (2017, March) Affordances and end states: how verb type and tense affect event comprehension. Talk presented at the CUNY Conference on Human Sentence Processing, Boston, MA.

*Krass, K., Prystauka, Y., & Rossi, E. (2016, August). Neural underpinnings of grammatical processing for less proficient L2 learners. Poster presented at the Society for the Neurobiology of Language Conference, London, UK.

Kush, D., Lohndal, T., & Sprouse, J. (2017, March). (In-)consistent island effects in Norwegian? Poster presented at the 30th Annual CUNY Conference on Human Sentence Processing, Cambridge, MA.

Large, E. (2016, July). Physically embodied music cognition. Keynote at the International Conference on Music Perception and Cognition, San Francisco, CA.

Lasto, C., Cook, B., Irwin, J., Avery, T & Landi, N. (2016, November). Audio-visual speech perception in autism: A behavioral and neurobiological correlational study. Poster, American Speech and Hearing Association Annual Meeting, Philadelphia, PA.

Lasto, C., Halas, L., Bell, S., Puglisi, C., Ryherd, K., Brancazio, L., Turcios, J., Avery, T., Irwin, J., & Landi, N. (2016, April). Neural correlates of audio-visual speech processing: implications for children diagnosed with autism spectrum disorder. Poster presented at the Seventh Annual University of Connecticut Language Festival, Storrs, CT.

Lau, A., Jasinska, K., Shuai, L., Bortfeld, H., Landi, N., & Pugh, K. (2016, April). Functional near infrared spectroscopy (fNIRS) investigation of emerging reading pathways in children with poor phonological awareness. Poster presented at the Twenty-Third Annual Meeting of the Cognitive Neuroscience Society, New York, NY.

Li, M. Y. C., Stevens, M., Fein, D., & Eigsti, I. M. (2016, August). Language

comprehension and functional connectivity in individuals with optimal outcome from autism spectrum disorder. Paper presented at the Society for the Neurobiology of Language, London, UK.

Li, M. Y.C., Martino, A. D., Stevens, M. C., Fein, D. A., & Eigsti, I. M. (2016, August). Language Comprehension and Functional Connectivity in Individuals with Optimal Outcome from Autism Spectrum Disorder. Poster presented at the 8th Annual Meeting of the Society for the Neurobiology of Language, London, UK.

*Lindsey, A., Coelho, C., Krueger, F., & Grafman, J. (2016, April). Examining narrative discourse deficits in TBI using Coh-Metrix. Poster, Annual Meeting of the Cognitive Neuroscience Society, New York, NY.

*Lindsey, A., Coelho, C., Krueger, F., & Grafman, J. (2016, November). Comparing Immediate and Delayed Story Retells in TBI. Talk, American Speech-Language-Hearing Association, Philadelphia, PA.

*Lindsey, A., Coelho, C., Krueger, F., & Grafman, J. (2016, May). An alternative approach: Comparing traditional measures of discourse deficits in TBI with Coh-Metrix. Poster presented at the Clinical Aphasiology Conference in Charlottesville, VA.

*Lindsey, A., Coelho, C., Krueger, F., & Grafman, J. (2016, November). Immediate & Delayed Story Retells in TBI. Paper, American Speech-Language and Hearing Association Convention in Philadelphia, PA.

*Luthra, S., *Fuhrmeister, P., Guediche, S., Blumstein, S., & Myers, E.B. (2016, November). Neural Correlates of Task-Irrelevant Perceptual Learning of Non-Native Speech Sounds. Poster presented at the Psychonomics Society, Boston, MA.

*Luthra, S., Guediche, S., Blumstein, S. E., & Myers, E. B. (2016, August). Effects of phonetic category structure on brain activity during word recognition. Poster presented at the Society for Neurobiology of Language. London, UK.

*Luthra, S., Guediche, S., Blumstein, S. E., & Myers, E. B. (2016, November). Effects of phonetic category structure on brain activity during word recognition. Poster presented at the Society for Neurobiology of Language, London, UK, August 2016.

Martinez Vera, G. (2016, July). Restricciones morfo-semanticas de los predicados verbales de cambio: a-/en-n-ar en espanol. Talk presented at Reunion de la Comision de Gramatica de la ALFAL - ALFAL(ito) 2016, Lima, Peru.

Martinez Vera, G. (2016, June). Morfosemantica de predicados de cambio de estado en aimara. Talk presented at Lunes Linguistico. Lima, Peru.

Martinez Vera, G. (2016, October). On the semantics of Spanish parasynthesis: a-/en-...-ar. Talk presented at the Hispanic Linguistics Symposium 2016, Washington D.C.

Martinez Vera, G. (2017, April). On recomplementation, verb movement and high adverbs in the Spanish left periphery. Talk presented at the 47th Linguistic Symposium of Romance Languages, Newark, DE.

Martinez Vera, G. (2017, March). Putting together recomplementation, verb movement and high adverbs in the Spanish. Poster presented at the 41st Penn Linguistics Conference. Philadelphia, PA.

Miller, L. E., C. Cordeaux & D. A. Fein (2016, May). ADOS Diagnostic Utility in Children with Low Mental Age. Poster presented at the International Meeting for Autism Research, Baltimore, MD.

Monto, N. R., Theodore, R. M., Orena, A. J., & Polka, L. (2016, December). The native language benefit for voice recognition is not contingent on lexical access. Poster presented at the 172nd meeting of the Acoustical Society of America, Honolulu, Hawaii.

Moulton E., M. Barton & D. A. Fein (2016, May). Factor Analysis of the Childhood Autism Rating Scale in Two-Year-Olds with ASD. Poster presented at the International Meeting for Autism Research, Baltimore, MD.

Mozeiko, J., & Coelho, C. (2016, November). Intensive Sound Production Treatment for Severe, Chronic Apraxia of Speech. Oral presentation, American Speech-Language-Hearing Association, Philadelphia, PA.

Myers, E.B. (2016, December). Consolidation during sleep stabilizes non-native speech sound learning. *The Journal of the Acoustical Society of America*, 140, 3283 (2016). Paper presented at the 172nd Annual Meeting of the Acoustical Society of America, Honolulu, HI.

Naigles, L., Mastergeorge, A., Johnston, R., Nordahl, C., & Amaral, D. (2016, May) Evidence for Language Phenotypes in Children with ASD Based on Varied, Longitudinal Assessment Measures. Poster presented at the International Meetings for Autism Research, Baltimore, MD.

*Nguyen, E. (2017, January). Lexical semantic profiles and the age of acquisition for the English passive. Paper presented at the Workshop on Passives, University of Geneva, Geneva, Switzerland.

*Nguyen, E. & Snyder, W. (2016, November) The (Non)Effects of Pragmatics on Children's Passives. Poster, Boston University Conference on Language Development (BUCLD 41), Boston, MA.

*Nguyen, E. & Snyder, W. (2016, September) The (non)-effect of pragmatics on children's passives. Paper, Generative Approaches to Language Acquisition - North America. Urbana-Champaign, IL.

*Nguyen, E., Pearl, L. (2017, April). Do you really mean it? Linking lexical semantic profiles and the age of acquisition for the English passive. Poster presented at the 35th West Coast Conference on Formal Linguistics. University of Calgary, Calgary, Canada.

*Nguyen, E., Pearl, L. (2017, January). Do you really mean it? Linking lexical semantic profiles and the age of acquisition for the English passive. Paper presented at the Linguistic Society of America Annual Meeting. Austin, Texas.

Orena, A. J., Polka, L., & Theodore, R. M. (2016, December). Language familiarity mediates identification of bilingual talkers across languages. Poster presented at the 172nd meeting of the Acoustical Society of American, Honolulu, Hawaii.

Ormston, L., *Shaw, K., & Bortfeld, H. (May, 2016). Direct experience with non-human species influences perceptual-tuning to faces, Poster presented at the International Conference on Infancy Studies, New Orleans, LA.

Parker, A., Grela, B., Yee, E., Davis, C., & Aljahlan, Y. (2017, April). Conceptual Organization in Specific Language Impairment. Poster presented at the Seventh Annual University of Connecticut Language Festival, Storrs, CT.

Paul, R., Rogers, T., Massucci, E., Pino, C, Poole, L, & *Simmons, E.S. (2017, April) Individual vs. team models of supervision during first year clinical education. Oral presentation at the Council of Academic Programs in Communication Sciences and Disorders, New Orleans, LA.

Paul, R., *Simmons, E.S., Khoo, L., Shang, R., Sousa, N., & Ferre, S. (2016, November). Comparing nonword repetition measures in bilingual preschoolers. Poster presented at the Annual American Speech-Language Hearing Association, Philadelphia, PA.

Pejovic, J., Yee, E., & Molnar, M. (August, 2016). Audiovisual matching ability in 4.5-month old monolingual and bilingual infants. Poster presented at the 8th Annual Meeting of the Society for the Neurobiology of Language, London, UK.

Perrino, P. A., *Rendall, A. R., LoTurco, J., & Fitch R. H. (November, 2016). Evaluation of visual motion perception ability in mice with knockout of the dyslexia candidate susceptibility gene *Dcdc2*. Poster, Society for Neuroscience Conference, San Diego, CA.

Prystauka, Y., Turick, K., *Ekves, Z. & Altmann, G. (2017, April). Dimensions of Change: Using machine learning techniques to predict neural activation from behavioral ratings. Poster presented at the Eighth Annual University of Connecticut Language Festival, Storrs, CT.

Ramanathan, P., *Lindsey, A., Yao, T.J., Galindo, D., & Perez, S. (2016, November). Priming and Antipriming of Memory and Judgments of Learning. Poster session presented at the Psychonomic Society in Boston, MA.

*Rendall, A., Truong, D. & Fitch, R.H. (2016, December). Mouse models of ASD: Social/communicative deficits and splinter acoustic skills. Talk, University of Connecticut Health Center Autism Workshop, Farmington, CT.

*Rendall, A. R., & Fitch R. H. (2016, May) Genetic models of communicative and language related disorders: what can we learn from mice. Oral presentation, International Society for Developmental Neuroscience, Antibes, France.

*Rendall, A., Ford, A., Perrino, P.A. & Fitch, R.H. (2016, November). Behavioral and neuroanatomical evaluation of the associated with autism spectrum disorders. Poster presented at the Society for Neuroscience Meeting, San Diego, CA.

*Rendall, A., Perrino, P. & Fitch, R.H. (2017, March). Transgenic mouse models of enhanced low-level acoustic processing in ASD. Oral presentation, Connecticut Institute for the Brain and Cognitive Sciences Forum, Storrs, CT.

*Rendall, A., Perrino, P. & Fitch, R.H. (2017, March). Transgenic mouse models of enhanced low-level acoustic processing in ASD. Poster presented at International Society for Behavioral Neuroscience, Las Vegas, NV.

*Richie, R., Hall, M., Coppola, M., Tabor, W. (2017, March). Conventionalization and reduction in an emerging communication system: An experimental and computational modeling investigation. Oral presentation, CUNY Conference on Human Sentence Processing, Cambridge, MA.

*Richie, R., M. Hall, & M. Coppola. (2016, July). A richly-connected communicative network hastens conventionalization of gestural referring expressions. Talk, International Society for Gesture Studies, Paris, France.

Rissman, L., L. Horton, M. Flaherty, A. Senghas, M. Coppola, D. Brentari, and S. Goldin-Meadow. (2016, July). Strong and weak agents in gesture and emerging sign language. Oral presentation, International Society for Gesture Studies, Paris, France.

Ryherd, K., Hung, Y-H., Baron, E., Jasinska, K., Mencl, W. E., & Landi, N. (2016, April). Individual differences in activation and functional connectivity across modality and processing level. Poster presented at the Twenty-Third Annual Meeting of the Cognitive Neuroscience Society, New York, NY.

Ryherd, K., Johns, C., Van Dyke, J., & Landi, N. (2016, April). Definition of poor comprehenders. Poster presented at the Seventh Annual University of Connecticut Language Festival, Storrs, CT.

Saltzman, D., & Myers, E.B. (2016, November). Individual differences in dynamic adaptation during lexically-guided perceptual learning. Poster presented at the Auditory Perception, Cognition, and Action Meeting, Boston, MA.

*Sawi, O., Rueckl, J. (2016, November). Individual Differences in Sensitivity to Morphological Structure. Poster presented at the meeting of the Psychonomics Society, Boston, MA.

- Scarpati, E. & *Tichko, P. (2017, April). Investigating the dynamic expression of emotion in music and motion: A developmental study. Poster sessions presented at Frontiers, University of Connecticut, Storrs, CT.
- *Simmons E.S., Dokura, S., DeMayo, D., Magnuson, J., & Eigsti, I. (2016, November). Acoustic and perceptual correlates of spoken prosody and their relationship to clinical ratings in Autism Spectrum Disorder. Poster presented at the Annual American Speech-Language Hearing Association, Philadelphia, PA.
- *Simmons, E.S., Wall, C., Paul, R., Shic, F. (2016, May). A randomized controlled trial of an application to treat prosodic deficits in those with ASD and other communication disorders. Oral presentation at the International Meeting for Autism Research, Baltimore, MD.
- Skoe, E., Burakiewicz, E., Figueiredo, M., & Hardin, M. (2016, May). Basic neural processing of sound in adults is influenced by bilingual experience. Oral presentation, Frequency Following Response Workshop, Boston University, Boston, MA.
- Skoe, E., Tufts, J.B., Njuki, C., Camera, S., Husereau, M., & Masi, R. (2017, February). Neurophysiological, Behavioral, and Dosimetric Indices of Noise Exposure in Musicians with Normal Audiometric Thresholds. Oral presentation, Association for Research in Otolaryngology, Baltimore, MD.
- *Smith, G. (2017, January). Self-organized parsing: Framework and an approach to intervention. Talk presented at the Geneva Passives Workshop, Geneva, Switzerland.
- *Smith, G., Havens, G., Franck, J., and Tabor, W. (2017, March). A feature hierarchy unpacks notional plurality in pseudopartitive agreement attraction. Paper presented at the 30th CUNY Conference on Human Sentence Processing in Cambridge, Massachusetts.
- *Snider L. (2016, November) Experiencing Passives. Oral presentation, LAWNE (Language Acquisition Workshop of New England), University of Massachusetts, Amherst, MA.
- *Snider, L. (2017, January) Eventivity, Aspectual Classes, and the Acquisition of English Passives. Oral presentation, the Geneva Passives Workshop, University of Geneva, Geneva, Switzerland.
- Snyder, W. (2017, March) Evidence that children set parameters. Plenary address, International Conference on Theoretical East Asian Psycholinguistics (ICTEAP-1). Hong Kong, China.
- Soja, N., Goodwin, M., & Naigles, L. (2016, May). Neologisms and How They May Help: A Case Study of a Girl With Autism Spectrum Disorder. Poster presented at the International Conference on Infancy Studies, New Orleans, LA.
- Soja, N., Goodwin, M., & Naigles, L. (2016, November). The Role of Light Verbs in the Mastery of New Tense Forms: A Case Study of One Child with High-Functioning Autism Spectrum Disorder. Poster presented at the Boston University Conference on Language Development, Boston, MA.
- Spaulding, T., & Van der Voort, D. (December, 2016). Assessing the mismatch between the language used in the juvenile justice system and the language ability of youth. Poster, American Speech-Language-Hearing Association Convention, Philadelphia, PA.
- Sprouse, J., Indurkha, S., Fong, S. & Berwick, R. C. (2016, April). Colorless green ideas still do sleep furiously. Talk presented at Generative Linguistics in the Old World (GLOW) 39, University of Gottingen, Gottingen, Germany.
- Su, Y., Naigles, L. & Su, L. (2016, May) Uneven Language Acquisition in Mandarin-Learning Preschool Children with ASD: Comparing Vocabulary, Grammar, and Pragmatic Use Via the PCIDI-Toddler Form. Poster presented at the International

Meetings for Autism Research, Baltimore, MD.

Su, Y., & Naigles, L. (2017, March) Grammatical Processing Difficulties in Mandarin-speaking Preschool Children with Autism Spectrum Disorders: Assessment via Intermodal Preferential Looking. Poster presented at the First International Conference on Theoretical East Asian Psycholinguistics, Hong Kong, China.

Tatsumi, Yuta. (2016, May). Grammaticalization of the Numeral "One" in Japanese: A Compositional Semantic Analysis. Talk at The 12th Workshop on Altaic Formal Linguistics, New Britain, CT.

Tatsumi, Yuta. (2016, October). Reciprocal nouns in Japanese. Poster at the 24th Japanese/Korean Linguistics Conference, Tachikawa, Japan.

Tatsumi, Yuta. (2016, April). Reciprocal Verbal Compounds and Null Reciprocals in Japanese. Talk, at the 34th West Coast Conference on Formal Linguistics, Salt Lake City, UT.

Tatsumi, Yuta. (2017, February). A Compositional Analysis of Plural Morphemes in Japanese. Poster, GLOW in Asia XI, Singapore, Republic of Singapore.

Theodore, R. M., Monto, N. R., Orena, A. J., & Polka, L. (2016, December). The native language benefit for voice recognition is not contingent on lexical access. Poster presented at the 172nd meeting of the Acoustical Society of American, Honolulu, Hawaii.

*Tichko, P., & Skoe, E. (2016, May). Neural Symphony: Mapping the piano keyboard to the subcortical auditory system. Talk, Frequency Following Response Workshop, Boston University, Boston, MA.

*Tichko, P., & Skoe, E. (2017, February). Frequency-dependent fine structure in the frequency-following response: The byproduct of multiple generators. Poster presented at Association for Research in Otolaryngology, Baltimore, MD.

Toscano, J., McMurray, B., Myers, E., and Goldrick, M. (2016, November). Unifying principles and individual differences: What should we focus on to understand speech? Paper presented at the Auditory Perception, Cognition, and Action Meeting, Boston, MA.

Troyb, E., Knoch, K., Herlihy, L., & Fein, D. (2016, May). Do restricted and repetitive behaviors during early childhood predict school-age executive functioning among children with autism spectrum disorder. Talk presented at the International Meeting for Autism Research (IMFAR), Baltimore, MD.

Tufts, J.B., Skoe, E., Njuki, C., Husereau, M., Masi, R., & Camera, S. (2017, February). Examining the noisy life of the college musician. Poster presentation at the annual conference of the National Hearing Conservation Association, San Antonio, TX.

*Wasserman, C. S., Kim, J. N., Large, E. W., & Skoe, E. (2016, August). Neural Resonance Theory: Entrainment to Missing Pulse Rhythms. Poster presented at the 38th Annual Meeting of the Cognitive Science Society, Philadelphia, PA.

*Wasserman, C. S., Kim, J. N., Large, E. W., & Skoe, E. (2016, July). Finding the beat: Neural responses to missing pulse rhythms. Poster presented at the 14th Annual International Conference for Music Perception and Cognition, San Francisco, CA.

*Wasserman, C. S., Kim, J. N., Large, E. W., & Skoe, E. (2016, May). Finding the beat: Neural responses to missing pulse rhythms. Talk, Frequency Following Response Workshop, Boston University, Boston, MA.

*Wasserman, C. S., Kim, J. N., Large, E. W., & Skoe, E. (2016, September). Finding the beat: Simultaneously-recorded cortical and subcortical steady-state responses to missing pulse rhythms. Poster presented at the 24th Annual International Society for Neurofeedback and Research, Orlando, FL.

Welles, R. & Yee, E. (2016, November). Orthographical Learning: The Impact of Cross-modal Interaction. Poster presented at the Psychonomic Society's 57th Annual Meeting, Boston, MA.

White, A.S. & Sprouse, J (2016, April). The trace of categorical structure in gradient judgments. Poster presented at West Coast Conference on Formal Linguistics 34, University of Utah, Salt Lake City, UT.

*Wittke, K., Mastergeorge, A., Ozonoff, S., Rogers, S., & Naigles, L. (2016, May) Specific Language Impairment in ASD: Exploring Language Phenotypes Beyond Standardized Testing. Poster presented at the International Meetings for Autism Research, Baltimore, MD.

Xie, X., Myers, E. B. (2016, December). Sleep facilitates talker generalization of accent adaptation. Poster presented at the 172nd Annual Meeting of the Acoustical Society of America. Honolulu, HI.

Partnerships/Collaborations

Academic Partner 1

Active Status

Yes

Partner Name

Basque Center on Brain, Cognition, & Language

Type of partner

Ph.D.-granting institution

Foreign-based institution

Funding arrangement for this partner

No funding/direct financial interaction is involved in this partnership.

Activities for this partner/institution

Facilities: IGERT trainees or faculty use a partner organization's facilities for project activities.

Collaborative Research/Teaching: Partner organization's personnel work with IGERT project staff on collaborative research/teaching.

Personnel Exchange: IGERT Trainees, faculty and/or partner organization personnel use each other's facilities or work at each other's sites on an ad hoc or as-needed basis.

Activities for this partner/institution

Multiple labs (notably, Altmann's, Rueckl's, and Yee's) continue to actively collaborate with BCBL scientists. Fellow Ekves is receiving valuable mentoring from senior scientists at BCBL.

Academic Partner 2

Active Status

Yes

Partner Name

Université Aix-Marseille

Type of partner

Ph.D.-granting institution

Foreign-based institution

Funding arrangement for this partner

No funding/direct financial interaction is involved in this partnership.

Activities for this partner/institution

Collaborative Research/Teaching: Partner organization's personnel work with IGERT project staff on collaborative research/teaching.

Activities for this partner/institution

PI Magnuson's lab continues an active collaboration with scientists in Marseille. Magnuson is working with Thomas Hannagan to develop a new computational model of spoken word recognition. Magnuson is learning new computational techniques from Hannagan that he can teach IGERT trainees about.

Academic Partner 3

Active Status

No

Partner Name

Institute of Cognitive Neuroscience, National Central University (Taiwan)

Type of partner

Ph.D.-granting institution

Foreign-based institution

Funding arrangement for this partner

No funding/direct financial interaction is involved in this partnership.

Activities for this partner/institution

Collaborative Research/Teaching: Partner organization's personnel work with IGERT project staff on collaborative research/teaching.

Activities for this partner/institution

Academic Partner 4

Active Status

No

Partner Name

Institute of Neuroscience, U. Salamanca, Spain

Type of partner

Ph.D.-granting institution

Foreign-based institution

Funding arrangement for this partner

No funding/direct financial interaction is involved in this partnership.

Activities for this partner/institution

Facilities: IGERT trainees or faculty use a partner organization's facilities for project activities.

Collaborative Research/Teaching: Partner organization's personnel work with IGERT project staff on collaborative research/teaching.

Personnel Exchange: IGERT Trainees, faculty and/or partner organization personnel use each other's facilities or work at each other's sites on an ad hoc or as-needed basis.

Activities for this partner/institution

Academic Partner 5

Active Status

Yes

Partner Name

University of Geneva

Type of partner

Ph.D.-granting institution

Funding arrangement for this partner

No funding/direct financial interaction is involved in this partnership.

Activities for this partner/institution

Facilities: IGERT trainees or faculty use a partner organization's facilities for project activities.

Collaborative Research/Teaching: Partner organization's personnel work with IGERT project staff on collaborative research/teaching.

Personnel Exchange: IGERT Trainees, faculty and/or partner organization personnel use each other's facilities or work at each other's sites on an ad hoc or as-needed basis.

Activities for this partner/institution

An international and interdisciplinary workshop (described above) involving 3 IGERT fellows, 2 IGERT associates, and 2 IGERT faculty laid the groundwork for new collaborations and joint training efforts (in fact, PI Magnuson and Co-I Eigsti are guest teaching in Geneva in May, which will be an opportunity to further strengthen these new ties.

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