

**Kathrin Rothermich, PhD**  
**Curriculum Vitae**

Associate Professor  
Department of Communication Sciences and Disorders  
College of Allied Health Sciences  
East Carolina University  
Website: <https://cahs.ecu.edu/sconelab/>

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**EDUCATION**

- 2012            **Ph.D. in Cognitive Science**  
University of Potsdam (Germany)
- 2007            **Combined Undergraduate and Masters' Degree in German Linguistics, General Linguistics, and Educational Science**  
University of Leipzig (Germany)

**EMPLOYMENT**

- 2023 – present    **Associate Professor**, Department of Communication Sciences and Disorders, East Carolina University (Greenville, USA)
- 2017 – 2023       **Assistant Professor**, Department of Communication Sciences and Disorders, East Carolina University (Greenville, USA)
- 2016 – 2017       **Research Scholar**, Language and Brain Lab, Department of Speech, Language, and Hearing Sciences, University of Connecticut (Storrs, USA)
- 2012 – 2016       **Postdoctoral Researcher**, Neuropragmatics and Emotion Lab, School of Communication Sciences and Disorders, McGill University (Montreal, Canada)
- 2011 – 2012       **Ph.D. Exchange Student**, International Laboratory for Brain, Music and Sound Research, Université de Montréal (Montreal, Canada)
- 2007 - 2011       **Ph.D. Student**, Minerva Research Group "Neurocognition of Rhythm in Communication", Max Planck Institute for Human Cognitive and Brain Sciences (Leipzig, Germany)

**RESEARCH INTERESTS**

Social communication, second language learning, neurogenic brain disorders, speech accommodation, pragmatics, speech perception, cognitive neuroscience, personality, social cognition, cultural differences

**GRANTS AND FELLOWSHIPS – FUNDED AND ONGOING**

- 2023-2026        **National Science Foundation** - Standard Grant (Award Number: 2141281). Role: Lead PI. Rothermich, K., Bobb, S.C., Lee., J. *Evaluating the Dynamics of Speech Accommodation: Evidence From Mixed-reality and Naturalistic L1-L2 Interactions*. \$340,493.  
<https://nsf.gov/2141281>

**GRANTS AND FELLOWSHIPS – UNDER REVIEW**

- 2025            **National Institutes of Health** – R21 grant - Resubmission. Role: M-PI. *Advancing Parkinson's Disease Diagnosis through Emotional Processing Analysis Using Eye Tracking*. \$373,336.00. Impact Score: 34; Percentile: 22. Council review pending.

2025 **National Science Foundation** - Doctoral Dissertation Research (Student: Rose Baker). Role: Mentor. *Measuring intergenerational accommodation production, processing and perception to identify positive communication strategies*. \$15,979. Under review.

#### GRANTS AND FELLOWSHIPS – FINISHED

2023-2024 **Parkinson's Foundation** – Community Grants. Role: Collaborator. *Pirates for Parkinson's: Increasing Access to Wellness Programs in Eastern North Carolina*. \$16,753.00.

2014-2017 **Fonds de recherche du Québec** – Santé, Bourse de Formation Postdoctorale. Postdoctoral Stipend (Dossier 30095). Role: Postdoc. *Conséquences de la maladie de Parkinson sur la communication et la cognition sociale*. CAD90,000.

2014 **Natural Sciences and Engineering Research Council of Canada**. Postdoctoral Fellowship. Role: Postdoc. *Neurofunctional study of entrainment deficits in music and speech*. CAD 20,000 (declined).

2013-2014 **McGill University**. Postdoctoral Fellowship. Role: Postdoc. CAD37,500.

2011-2012 **Erasmus Mundus Student Exchange Network in Auditory Cognitive Neuroscience Scholarship**. Role: Exchange student. €24,500.

#### GRANTS AND FELLOWSHIPS – NOT FUNDED

2024 **National Institutes of Health** – R21 grant. Role: M-PI. *Advancing Parkinson's Disease Diagnosis through Emotional Processing Analysis Using Eye Tracking*. \$373,336.00. Impact Score: 30; Percentile: 14. Not funded.

2024 **National Science Foundation** – Standard Grant (Collaborative). Role: Co-Investigator. *(De)coding Prosocial Insincerity in Interpersonal and Intercultural Communication: An Empirical investigation of the Prosody-Pragmatics Interface*. \$101,158. Not competitive – has promise.

2023 **National Science Foundation** - Major Research Instrumentation Program. Role: Collaborator. *A Multimodal neuroimaging tool for Collaborative Research and Training*. \$509,341.00. Not funded.

2023 **Pershing Square Foundation** – MIND Prize. Role: co-PI. *Brain activity changes as biomarkers to detect progression in Parkinson's Disease: A multimodal neuroimaging approach*. \$603,488.00. Not funded.

2022 **National Institutes of Health** - UH2/UH3 Phase Innovation Awards. Role: Consultant. *Precision medicine and minority health disparities in ADRD: Diversifying a national sample of digital and neuro-biomarkers via the interactive Physical and Cognitive Exercise System(iPACES4all)*. Not funded.

2022 **PTEC Breast Cancer Health Inequities** - Research Grant Program. Role: Consultant. *Perceptions of breast cancer across diverse populations and communities: A patient/survivor driven approach to earl detection, prevention, and outreach*. \$ 50,000.00. Not funded.

2021 **National Institutes of Health** - R01 grant. Role: PI. Rothermich, K., Roberts., A., Munoz, D. *The influence of Parkinson's Disease on Social Perception*. \$ 3,011,237.00. Impact Score: 48; Percentile: 47. Not funded.

2020 **National Institutes of Health** - R01 grant. Role: PI. Rothermich, K., Roberts., A. *The Influence of Parkinson's Disease on Social Communication*. \$1,536,874. Not discussed.

- 2019 **Parkinson's Foundation** - Stanley Fahn Junior Faculty Award. Role: Lead PI. Rothermich, K. *Understanding Social Communication Deficits in Parkinson's Disease: The Influence of Multimodal Cues and Cognitive Control*. \$ 300,000.00. Not invited.
- 2018 **National Science Foundation** - REU Site: Cognitive Computing. Role: Faculty mentor. Gudivada, V., Everhart, E., Nassehzadeh-Tabrizi, M., Rothermich, K., Tran, T., Vilkomir, S., Rui, W., Wuensch, K. \$ 359,834.08. Not funded.
- 2018 **National Institutes of Health** - R21 grant. Role: Lead PI. Rothermich, K., Bobb, S.C., Kanske, P. *The Perception of Speech Accommodation in Adult English Language Learners*. \$ 332,106.00. Impact Score: 40; Percentile: 45.
- 2018 **National Institutes of Health** - R21 grant. Role: Lead PI. Rothermich, K., Bobb, S.C., Kanske, P. *The Perception of Speech Accommodation in Adult English Language Learners*. \$ 332,106.00. Impact Score: 60; Percentile: 62.

**PUBLISHED ARTICLES (PEER REVIEWED)**  
**(42 Publications, Citations: 1454, h-index: 19)**

**\*Lab students**

42. **ROTHERMICH, K.**, Baker, R.\*, Dowson, D.\*, Ragsdale, H.\*, Eanes, E.\*, McNeill, M.\*, Lee, M. H., Farr, D. E., Eaves, A., Lee, J., & Bobb, S. C. (2025, May 2). *Patient-provider communication and health disparities: An experiment exploring language proficiency and communication accommodation* [Preprint]. OSF. [https://osf.io/preprints/socarxiv/rpzx8\\_v1](https://osf.io/preprints/socarxiv/rpzx8_v1)
41. **ROTHERMICH, K.**, Su, Y., Giles, R., & Pell, M. (2025, May 9). *Social impressions of English irony: A comparison between L1 and L2 perceptions* [Preprint]. OSF. [https://osf.io/preprints/osf/sjbe2\\_v1](https://osf.io/preprints/osf/sjbe2_v1)
40. Baker, R.\*, Bobb, S. C., Nobles, C.\*, Reis, H., Wright, H. H., Walenski, M., & **ROTHERMICH, K.** (in press). Measuring speech accommodation for older adults: A scoping review. *Journal of Language and Aging Research*.
39. Turbeville, L., Adams, C., Wedge, A., Smitherman, K., & **ROTHERMICH, K.** (in press). Interdisciplinary functional exercise program for individuals with Parkinson's disease: A case series. *The Open Journal of Occupational Therapy*.
38. Holt, Y. F., Bent, T., Baese-Berk, M., & **ROTHERMICH, K.** (2024). Race Identification in American English. *Journal of Speech, Language, and Hearing Research*, 67(12), 4614-4627.
37. Baker, R.\*, Bobb, S. C., Eanes, E.\*, McNeill, M.\*, Ragsdale, H.\*, Eaves, A., ... & **ROTHERMICH, K.** (2024, May). Speech Accommodation in Health-Care Interactions: Evidence Using a Mixed-Reality Platform. In *Proceedings of the First Workshop on Patient-Oriented Language Processing (CL4Health)@ LREC-COLING 2024* (pp. 215-219).
36. Makarla, P. R., Joergensen, G. H., Tyner, K. B.\*, Sprinkle, C.\*, & **ROTHERMICH, K.** (2024). Differences in politeness perception of irony and prosocial lies: Exploring the role of age, gender, and geographic location. *Canadian Journal of Experimental Psychology / Revue canadienne de psychologie expérimentale*, 78(2), 100–113. <https://doi.org/10.1037/cep0000324>
35. **ROTHERMICH, K.**, Turbeville, L., Feeney, M., Scott, J.\*, Wilson, A.\*, & Mantri, S. (2024). Health Care Needs of Individuals with Parkinson's Disease Living in Eastern North Carolina: Insights for Multidisciplinary Care and Telemedicine. *Journal of Allied Health*, 53(2), e67–e76.
34. Scott, J.\*, Jaworska, N., Wilson, A.\*, Funke, M.\*, Sharma, S., Johnson, E. K., & **ROTHERMICH, K.**, (2023). Changes in anxiety and stress due to the COVID-19 pandemic in individuals with Parkinson's disease. *Psychiatry Research Communications*, 3(4), 100147.

33. Baker, R. P. \*, Mello, K., Ragsdale, H. \*, **ROTHERMICH, K.**, & Bobb, S. (2023). Exploring Natural Speech Accommodation in L1-L2 Interactions: Implications for Pedagogy. *Babylonia Multilingual Journal of Language Education*, 3, 22–29. <https://doi.org/10.55393/babylonia.v3i.305>
32. Sharma, S., Fleck, K. \*, Winslow, S., & **ROTHERMICH, K.** (2023). The Impact of Parkinson's Disease on Social Communication: An Exploratory Questionnaire Study. *Seminars in speech and language*, 44(5), 254–266. <https://doi.org/10.1055/s-0043-1773804>
31. **ROTHERMICH, K.**, Baker, R., Falkins, S. \*, Kum, J., Capps, M. R. \*, Bobb, Susan C. (2023). Reported Use of Second-Language Speech Accommodation in Everyday Interactions: The Role of Individual Differences. *Journal of Speech, Language, and Hearing Research*, 66(9), 3307-3327.
30. **ROTHERMICH, K.**, Dixon, S., Weiner, M., Capps, M. \*, Dong, L., Paquette, S., & Zhou, N. (2022). Perception of Speaker Sincerity in Complex Social Interactions by Cochlear Implant Users. *PloS one*, 17(6), 1-14. DOI: <https://doi.org/10.1371/journal.pone.0269652>
29. Pell, M. D., Sethi, S., Rigoulot, S., **ROTHERMICH K.**, Liu, P., & Jiang, X. (2022). Emotional Voices Modulate Perception and Predictions About an Upcoming Face. *Cortex*, 149, 148–164. Advance online publication. DOI: <https://doi.org/10.1016/j.cortex.2021.12.017>
28. **ROTHERMICH K.**, Ahn, S., Dannhauer, M., & Pell, M. D. (2022). Social Appropriateness Perception of Dynamic Interactions. *Social Neuroscience*, 17(1), 37–57. DOI: <https://doi.org/10.1080/17470919.2022.2032326>
27. **ROTHERMICH K.**, Ogunlana, A., & Jaworska, N. (2021). Change in Humor and Sarcasm Use Based on Anxiety and Depression Symptom Severity During the COVID-19 Pandemic. *Journal of Psychiatric Research*, 140, 95–100. Advance online publication. DOI: <https://doi.org/10.1016/j.jpsychires.2021.05.027>
26. Johnson, E. K., & **ROTHERMICH K.** (2021). Affiliation Matters: The Influence of Political Affiliation on Responses to Social Media Content about Climate Change. *International Journal of Climate Change: Impacts & Responses*, 13(1), 121-130..
25. Joergensen, G. H., Makarla, P. R., Fammartino, M., Benson, L., & **ROTHERMICH K.** (2021). No, No One Had Fun. Individual Differences in Nonliteral Language Perception. *Language and Speech*, Advance online publication. DOI: <https://doi.org/10.1177/00238309211010859>
24. **ROTHERMICH K.**, Schoen Simmons, E., Rao Makarla, P., Benson, L., \*Plyler, E., Kim, H., & Joergensen, G. H. (2021). Tracking Nonliteral Language Processing Using Audiovisual Scenarios. *Canadian Journal of Experimental Psychology = Revue Canadienne de Psychologie Experimentale*, 75(2), 211–220. DOI: <https://doi.org/10.1037/cep0000223>  
\*Shortlisted for best paper\*
23. Sharma, S., Kim, H., \*Harris, H., Haberstroh, A., Wright, H. H., & **ROTHERMICH K.**, (2021). Eye Tracking Measures for Studying Language Comprehension Deficits in Aphasia: A Systematic Search and Scoping Review. *Journal of Speech, Language, and Hearing Research*, 64(3), 1008-1022. DOI: [https://doi.org/10.1044/2020\\_JSLHR-20-00287](https://doi.org/10.1044/2020_JSLHR-20-00287)
22. **ROTHERMICH K.**, \*Giorio, C., \*Falkins, S., \*Leonard, L., & Roberts, A. (2021). Nonliteral Language Processing Across the Lifespan. *Acta Psychologica*, 212, 103213. DOI: <https://doi.org/10.1016/j.actpsy.2020.103213>
21. Tahmasebifard, N., Ellis, C., Rothermich, K., Fang, X., & Perry, J. L. (2021). Evaluation of the Symmetry of the Levator Veli Palatini Muscle and Velopharyngeal Closure Among a Noncleft Adult Population. *The Cleft Palate-Craniofacial Journal: Official Publication of the American Cleft Palate-Craniofacial Association*, 58(6), 728–735. DOI: <https://doi.org/10.1177/1055665620961269>

20. Johnson, E. K., **ROTHERMICH K.**, & Shoenberger, H. (2020). I'll Have What She's Having: Parasocial Communication via Social Media Influences on Risk Behavior. *The Journal of Social Media in Society*, 9(2), 319-334.
19. **ROTHERMICH K.**, Johnson, E. K., Griffith, R. M., & \*Beingolea, M. M. The Influence of Personality Traits on Attitudes Towards Climate Change—An Exploratory Study. *Personality and Individual Differences*, 168, 110304. DOI: <https://doi.org/10.1016/j.paid.2020.110304>
18. Ellis, C., Peach, R. K., & **ROTHERMICH K.** (2020). Relative Weight Analysis of the Western Aphasia Battery. *Aphasiology*, 35(10), 1-12. DOI: <https://www.tandfonline.com/doi/full/10.1080/02687038.2020.1787947>
17. **ROTHERMICH K.**, Caivano, O., Knoll, L. J., & Talwar, V. (2020). Do They Really Mean it? Children's Inference of Speaker Intentions and the Role of Age and Gender. *Language and Speech*, 63(4), 689-712. DOI: <https://journals.sagepub.com/doi/10.1177/0023830919878742>
16. Giles, R. M., **ROTHERMICH K.** & Pell, M. D. (2019). Differences in the Evaluation of Prosocial Lies: A Cross-cultural Study of Canadian, Chinese and German Adults. *Frontiers in Communication*, 4, 38. DOI: <https://doi.org/10.3389/fcomm.2019.00038>
15. **ROTHERMICH K.**, \*Harris, H. L., Sewell, K., & Bobb, S. C. (2019). Listener Impressions of Foreigner-Directed Speech: A Systematic Review. *Speech Communication*, 112, 22-29. DOI: <https://doi.org/10.1016/j.specom.2019.07.002>
14. Bobb, S. C., Mello, K., Turco, E., Lemes, L., Fernandez, E., & **ROTHERMICH K.**, (2019). Second Language Learners' Listener Impressions of Foreigner-Directed Speech. *Journal of Speech, Language, and Hearing Research*, 1-14. DOI: [https://doi.org/10.1044/2019\\_JSLHR-S-18-0392](https://doi.org/10.1044/2019_JSLHR-S-18-0392)
13. Schwartz R., **ROTHERMICH K.**,<sup>1</sup>, Kotz, S.A., Pell, M.D (2018). Unaltered Emotional Experience in Parkinson's Disease: Pupillometry and Behavioral Evidence. *Journal of Clinical and Experimental Neuropsychology*, 40:3, 303-316. DOI: <https://doi.org/10.1080/13803395.2017.1343802>
12. Fish, K., **ROTHERMICH K.**, Pell., M.D. (2017). The Sound of (In)sincerity. *Journal of Pragmatics*, 121, 147-161. DOI: <https://doi.org/10.1016/j.pragma.2017.10.008>
11. Pell, M.D., **ROTHERMICH, K.**, Liu, P., Paulmann, S., Sethi, S., & Rigoulot, S (2015). Preferential Decoding of Emotion from Human Non-linguistic Vocalizations versus Speech Prosody. *Biological Psychology*, 111, 14-25. DOI: <https://doi.org/10.1016/j.biopsycho.2015.08.008>
10. **ROTHERMICH, K.**, & Pell, M.D (2015). Introducing RISC: A New Video Inventory for Testing Social Perception. *PloS one*, 10(7), 1-24. DOI: <https://doi.org/10.1371/journal.pone.0133902>
9. Pell, M.D., Monetta, L., **ROTHERMICH, K.**, Kotz S.A., Cheang, H.S., & McDonald, S. (2014). Social Perception in Adults with Parkinson's Disease. *Neuropsychology*, 28(6), 905–916. DOI: <https://doi.org/10.1037/neu0000090>
8. Paquette, S., Mignault Goulet, G., & **ROTHERMICH, K.** (2013). Prediction, Attention and Unconscious Processing in Hierarchical Auditory Perception. *Frontiers in Psychology*, 4, 955. DOI: <https://doi.org/10.3389/fpsyg.2013.00955>
7. **ROTHERMICH, K.**, & Kotz, S.A. (2013). Predictions in Speech Comprehension: fMRI Evidence on the Meter-Semantic Interface. *NeuroImage*, 70, 89–100. DOI: <https://doi.org/10.1016/j.neuroimage.2012.12.013>

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<sup>1</sup> Contributed equally.

6. **ROTHERMICH, K.**, Schmidt-Kassow, M. & Kotz, S. A. (2012). Rhythm's Gonna Get You: Regular Meter Facilitates Semantic Sentence Processing. *Neuropsychologia*, 50(2), 232–244. DOI: <https://doi.org/10.1016/j.neuropsychologia.2011.10.025>
5. Schwartz, M., **ROTHERMICH, K.** & Kotz, S. A. (2012). Functional Dissociation of Pre-SMA and SMA-proper in Temporal Processing. *NeuroImage*, 60(1), 290–298. DOI: <https://doi.org/10.1016/j.neuroimage.2011.11.089>
4. Schwartz, M., **ROTHERMICH, K.**, Schmidt-Kassow, M. & Kotz, S. A. (2011). Temporal Regularity Effects on Pre-attentive and Attentive Processing of Deviance. *Biological Psychology*, 87(1), 146–151. DOI: [10.1016/j.biopsycho.2011.02.021](https://doi.org/10.1016/j.biopsycho.2011.02.021)
3. Schmidt-Kassow, M., **ROTHERMICH, K.**, Schwartz, M., & Kotz, S. A. (2011). Did You Get the Beat? Late Proficient French-German Learners Extract Strong-weak Patterns in Tonal but not in Linguistic Sequences. *NeuroImage*, 54(1), 568–76. DOI: [10.1016/j.neuroimage.2010.07.062](https://doi.org/10.1016/j.neuroimage.2010.07.062)
2. **ROTHERMICH, K.**, Schmidt-Kassow, M., Schwartz, M., & Kotz, S. A. (2010). Event-related Potential Responses to Metric Violations: Rules versus Meaning. *Neuroreport*, 21(8), 580–584. DOI: [10.1097/WNR.0b013e32833a7da7](https://doi.org/10.1097/WNR.0b013e32833a7da7)
1. Schmidt-Kassow, M., Kulka, A., Gunter, T. C., **ROTHERMICH, K.**, & Kotz, S. A. (2010). Exercising During Learning Improves Vocabulary Acquisition: Behavioral and ERP Evidence. *Neuroscience Letters*, 482(1), 40–44. DOI: [10.1016/j.neulet.2010.06.089](https://doi.org/10.1016/j.neulet.2010.06.089)

#### EDITED VOLUMES/CHAPTERS

1. **Kotz, S. A., ROTHERMICH, K.**, & Schmidt-Kassow, M. (2015). The Role Of Default Stress Patterns in German Monolingual and L2 Sentence Processing. In R. Vogel & R. Vijver (Ed.), *Rhythm in Cognition and Grammar: A Germanic Perspective* (pp. 83–110). Berlin, München, Boston: De Gruyter Mouton. <https://doi.org/10.1515/9783110378092.83>
2. Kotz, S. A., **ROTHERMICH, K.**, & Schmidt-Kassow, M. (2013). Neurokognition des Sprachverstehens bei Gesunden und Patienten mit Fokalen Zerebralen Läsionen. [Neurocognition of Speech Comprehension in Healthy Subjects and Patients with Focal Cerebral Lesions.]. In E. Schröger, & S. Koelsch (Eds.): *Enzyklopädie der Psychologie/Themenbereich C: Theorie und Forschung/Kognition/Affektive und Kognitive Neurowissenschaft*. Göttingen: Hogrefe.
3. Kotz, S. A., **ROTHERMICH, K.**, & Schmidt-Kassow, M. (2012). Sentence Comprehension in Healthy and Brain-Damaged Populations. In Miriam Faust (Ed.): *The Handbook of the Neuropsychology of Language*. New York: Wiley Blackwell.

#### AWARDS AND HONORS

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|------|---|
| 2022 | ECU Scholar-Teacher Award   |
| 2021 | Meritorious Poster Submission Award, American Speech-Language-Hearing Association                 |
| 2019 | Mentee, Training in Grantsmanship for Rehabilitation Research                                     |
| 2018 | Mentee, ASHA Lessons for Success  |
| 2017 | Student Scholar Award for 12th Annual Eleanor M. Saffran Conference                               |
| 2016 | Centre for Research on Brain, Language and Music, Travel Award (\$ 700)                           |
| 2015 | Centre for Research on Brain, Language and Music, Travel Award (\$ 700)                           |
| 2014 | Erasmus Mundus Student Exchange Network in Auditory Cognitive Neuroscience, Travel Award (\$1200) |
| 2012 | Magna cum laude (Ph.D.), University of Potsdam  |

#### INVITED TALKS

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| 2025 | Nonliteral Language and the right temporo-parietal junction (rTPJ): Individual Differences in Empathic Processing. Symposium: New advances in research on the neural representation of vocal affect: elucidating how different brains process vocal emotions. Annual Meeting of the Association for |
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Psychological Science (APS). Washington, DC.

- 2024 Parkinson's Disease and Its Impact on Social Connections: A Community Guide. The Office of Healthy Aging Lecture Series, ECU. Greenville, NC.
- 2023 Individual Differences in Processing Sarcasm. ECU Scholar Teacher Series. Greenville, NC (virtual).
- 2023 Social-pragmatic aspects of dynamic language processing. Psychology Colloquium, North Dakota State University, USA.
- 2021 The Use of Eye Tracking Data in Social Communication Research. Love Data Week. East Carolina University, Laupus Library. Greenville, NC (virtual).
- 2021 Nonliteral Language Processing Across the Lifespan. International Online Workshop on Language in Healthy and Pathological Aging (AGELANG). Salamanca, Spain (virtual).
- 2020 How to Make Sense of the Speech Signal: Acoustic and Social Pragmatic Processes. University of Geneva, Switzerland (virtual).
- 2019 The Perception of Speech Accommodation in Adult English Language Learners. University of Hawaii, USA (virtual).
- 2019 Parkinson's Disease and Social Communication. Parkinson's Support Group, Oriental, USA.
- 2018 On the Influence of Individual Differences in Pragmatic Inferences: Behavioral and Eye Tracking Evidence. McGill Language & Multilingualism Laboratory, McGill University, Montreal, Canada.
- 2018 Parkinson's Disease and Social Communication. Parkinson's Support Group, Greenville, USA.
- 2017 How to Make Sense of the Speech Signal: Acoustic and Social Pragmatic Processes. Social Cognitive Science Seminar Series, Cognitive, Linguistic & Psychological Sciences Department, Brown University, Providence, USA.
- 2017 Cognitive Mechanisms Underlying Social Communication. Psychology Department Research Colloquium, sponsored by the Lubin Science Endowment, Skidmore College, Saratoga Springs, USA.
- 2016 How to Make Sense of Communicative Intentions: Social and Cognitive Processes. Language and Cognition Brownbag, University of Connecticut, Storrs, USA.
- 2015 Introducing RISC: A New Open-Source Video Database for Testing Social Perception in Healthy and Neuropsychological Populations. Cognitive Area Seminar, Psychology Department, McGill University, Montreal, Canada.
- 2015 Introducing RISC: A New Open-Source Video Database for Testing Social Perception in Healthy and Neuropsychological Populations. Cognitive Neurology Unit, Beth Israel Deaconess Medical Center, Harvard Medical School, Boston, USA.
- 2014 It's About Time: On the Involvement of Motor Areas in Speech Rhythm Perception. CRBLM Workshop on Sensorimotor integration in speech and music, BRAMS, Université de Montréal, Montreal, Canada.
- 2012 The Influence of Regular Meter on Semantic and Syntactic integration. Hôpital Rivière-des-Prairies, Research laboratory in neurosciences and cognitive electrophysiology, Montréal, Canada.

## CONFERENCE PAPERS

\* *Lab students*

- 2024 Baker, R., Dowson, D., McNeill, M., Eanes, E., Ragsdale, H., Eaves, A., Lee, J., Bobb, S. C., & **ROTHERMICH, K.** (2024, November 23). *Speech accommodation in clinical contexts: Lexical and acoustic analysis of mixed-reality interactions* [Poster presentation]. Psychonomic Society 65<sup>th</sup>

Annual Meeting, New York, NY.

- 2024 Baker, R., **ROTHERMICH, K.**, & Walenski, M. (2024, July). *Healthy aging and communication: Insights from interdisciplinary research* [Poster presentation]. Healthy Aging Symposium, Georgetown University, Washington, D.C.
- 2023 Rose, B.\*, Bobb, S.C., Nobles, C.\*, Reis, H., **ROTHERMICH, K.** Communicating Effectively with Older Adults: A Systematic Scoping Review. ASHA Convention, Boston, USA.
- 2023 **ROTHERMICH, K.**, Saltzman, D., Xie, X., & Myers, E.B. Phonetic Competition and Speech Recognition: Effects of Clear Speech in Aphasia". Society of the Neurobiology of Language Conference, Marseille, France.
- 2022 Scott, J.\*, Wilson, A.\*, Jaworska, N., Mantri, S., & **ROTHERMICH, K.** Changes in Anxiety and Depression Due to the COVID-19 Pandemic in Individuals With Parkinson's Disease. ASHA Convention, New Orleans, USA.
- 2022 Turbeville, L. S., Scott, J.\*, Wilson, A.\*, Mantri, S., & **ROTHERMICH, K.** Access to Care for People with Parkinson's Disease in Eastern North Carolina. AHEC Neuroscience Conference, Greenville, USA.
- 2021 Scott, J.\*, Mansfield, R.\*, Funke, M\*, Sharma, S., Johnson, E.K., Jaworska, N., **ROTHERMICH, K.** The Impact of the COVID-19 Pandemic on Mental Health in Individuals with Parkinson's Disease. ASHA Convention, Washington, USA (virtual).
- 2021 **ROTHERMICH, K.**, Dixon, S., Weiner, M., Capps, M.\*, Dong, L., Paquette, S., & Zhou, N. The Perception of Sarcasm in Cochlear Implant Users. ASHA Convention, Washington, USA (virtual). *\*Winner of the merit poster submission award\**
- 2021 Rountree, M.\*, Scott, J.\*, Ritter, E.\*, Fleck, K.S.\*, Harris, H.L., Capps, M.\*, & **ROTHERMICH, K.** The Impact of Parkinson's Disease on Social Communication: Behavioral Evidence. ASHA Convention, Washington, USA (virtual).
- 2020 Capps, M.\*, Falkins, S.\* , Baker, B., Kum, J., Bobb, S.C., & **ROTHERMICH, K.** The Consequences of Speech Accommodation Towards Non-Native Speakers of English. Bilingualism Matters Symposium (virtual).
- 2019 **ROTHERMICH, K.**, Jackson, C.\*, Leonard, L.\*, & Falkins, S. \*Social Communication Across the Lifespan: Evidence Using the RISC Inventory. ASHA Convention, Orlando, USA.
- 2019 Fleck, K.\*, Sharma, S. & **ROTHERMICH, K.** The Impact of Parkinson's Disease on Social Communication. ASHA Convention, Orlando, USA.
- 2019 Saryu, S., Kim, H., Wright, H., & **ROTHERMICH, K.** Advancement of Eye Tracking Methods in Aphasia Research: A Review. ASHA Convention, Orlando, USA.
- 2019 Ellis, C., Peach, R.K., & **ROTHERMICH, K.** Relative Contribution Analysis of the Western Aphasia Battery. ASHA Convention, Orlando, USA.
- 2019 Ellis, C., Peach, R.K., & **ROTHERMICH, K.** Relative Contribution Analysis of the Western Aphasia Battery. 49th Clinical Aphasiology Conference, Whitefish, USA.
- 2018 **ROTHERMICH, K.**, Turco, E., Fernandez, E, Mello, K., Lemes, L., & Bobb, S.C. Emotional Responses to Speech Accommodation: A Systematic Review. 177th Meeting Acoustical Society of America, Victoria, Canada.
- 2018 **ROTHERMICH, K.**, Caivano, O., & Talwar, V. Do You Really Mean It? On the Understanding of Social Intentions in Children. ASHA Convention, Boston, USA.
- 2018 **ROTHERMICH, K.**, Fammartino, M., Kim, H., & Joergensen, G. H. Individual Differences in Sarcasm Perception: Behavioral and Eye Tracking Evidence. Society for the Neurobiology of Language Conference, Quebec, Canada.
- 2017 **ROTHERMICH, K.**, Saltzman, D., Xie, X., & Myers, E.B. Sensitivity to Phonetic Competition in People with Aphasia. 12<sup>th</sup> Annual Eleanor M. Saffran Conference on Cognitive Neuroscience and Rehabilitation of Communication Disorders, Temple University, Philadelphia, USA.
- 2017 Turco, E., Fernandez, E, Mello, K., Lemes, L., **ROTHERMICH, K.**, & Bobb, S.C. L2 English Learners' Perception of Foreign-Directed Speech. Student Presentation, Gordon College, Wenham, USA.
- 2017 Fammartino, M. Joergensen, G. H., Altmann, G. T. M. & **ROTHERMICH, K.** "No, No One Had Fun" – Individual Differences in Sarcasm Perception. Eighth annual University of Connecticut Language Fest, Storrs, USA. *\*Winner of the outstanding undergraduate poster award\**
- 2017 Hemans, A., **ROTHERMICH, K.**, Saltzman, D., & Myers, E. The Role of the Left Inferior Frontal Gyrus in Natural Language Processing. Eighth annual University of Connecticut Language Fest, Storrs, USA.



- 2016 **ROTHERMICH, K.** & Pell., M.D. (2016, August). Neural Correlates of Social Appropriateness in Dynamic Conversation. Eighth Annual Meeting for the Neurobiology of Language, London, UK.
- 2015 **ROTHERMICH, K.** & Pell., M.D. (2015, April). Introducing RISC: A New Inventory for Testing Social Perception in Neuropsychological Populations. 2015 Meeting of the Social and Affective Neuroscience Society, Boston, USA.
- 2015 **ROTHERMICH, K.**, Shulman, Z. & Pell, M.D. (2015, March). Vocal Disgust Modulates Socio-Emotional Judgments: Behavioral and ERP evidence. 22nd Annual Cognitive Neuroscience Society Meeting, San Francisco, USA.
- 2014 **ROTHERMICH, K.**, Tranchant, P., Schwartz, M., Kotz S.A. & Peretz, I. (2014, April). Rhythm is a Dancer: Electrophysiological Evidence for Sensory-Driven Synchronization Deficits in Beat Deafness. Erasmus Mundus Auditory Cognitive Neuroscience Program – Symposium, Leipzig, Germany.
- 2013 **ROTHERMICH, K.**, & Kotz, S.A. (2013, April). Predictions in Speech Comprehension: fMRI Evidence on the Meter-Semantic Interface. 20th Annual Cognitive Neuroscience Society Meeting, San Francisco, USA.
- 2010 **ROTHERMICH, K.**, Schmidt-Kassow, M. & Kotz, S.A. (2010, November). Brain Correlates of Speech Rhythm and Semantic Processing. 40th Annual Meeting of the Society for Neuroscience, San Diego, California, USA.
- 2010 Schwartz, M., **ROTHERMICH, K.** & Kotz, S. A. (2010, June). Clusters of fMRI Activation in the SMA Reflect Motor and Non-Motor Rhythm Processing. 16th Annual Meeting of the Organization for Human Brain Mapping, Organization for Human Brain Mapping, Barcelona, Spain.
- 2010 **ROTHERMICH, K.**, Maess, B., Dannhauer, M., Sikkema, S. H., Schmidt-Kassow, M., Knoesche, T. R., et al. (2010, June). MEG Reveals Shared Resources for Speech Rhythm and Syntax. 16th Annual Meeting of the Organization for Human Brain Mapping, Organization for Human Brain Mapping, Barcelona, Spain.
- 2010 Kotz, S.A., **ROTHERMICH, K.**, Schwartz, M., Schmidt-Kassow, M., Mankel, K., Eggert, K. (2010). Early Non-Motor Symptoms in De Novo Parkinson disease: Predictors of Non-Linguistic and Linguistic Speech Processing Deficits? Seventeenth Annual Cognitive Neuroscience Society Meeting, Montreal, Canada.
- 2009 **ROTHERMICH, K.**, Schmidt-Kassow, M., & Kotz, S. A. (2009). Why the Metric Negativity is not an N400: An ERP Study on Metric and Syntactic Processing Using Jabberwocky Sentences. Journal of Cognitive Neuroscience, Supplement, S122.
- 2009 **ROTHERMICH, K.** Schmidt-Kassow, M., & Kotz, S. A. (2009). The Role of Attention in Processing Jabberwocky Sentences: Revisiting the P600. NeuroImage, 47(Supplement 1), S142.
- 2009 **ROTHERMICH, K.**, Schmidt-Kassow, M., & Kotz, S. A. (2008). Zur Interaktion von Syntax und Metrum: eine auditive ereigniskorrelierte fMRT-Studie [On the interaction of syntax and meter: An auditory efMRI study]. In P. Khader, K. Jost, H. Lachnit, & F. Rösler (Eds.), Beiträge zur 50. Tagung experimentell arbeitender Psychologen p. 273. Lengerich: Pabst Science Publishers.

## TEACHING AREAS

Speech Science, Pragmatics, Introduction to Communication Science, Speech Disorders, Cognitive Neuroscience, Neurolinguistics, Auditory Perception, Research Methods, Phonetics

## TEACHING EXPERIENCE

### East Carolina University (Communication Sciences and Disorders), Instructor:

#### **PhD Students:**

Introduction to R for Statistical Computing (Spring 2018)

#### **Graduate level (MS):**

CSDI 6200 - Multicultural Communication Disorders (Fall 2022, 2023, 2024)

CSDI 6113 - Cognitive-linguistic Impairment in Brain Injured Adults (Fall 2018, 2019, 2020, 2021, 2022, 2023, 2024)

CSDI 6528 - Research in Speech-Language Pathology (Summer 2018, 2020, 2021, 2022)

CSDI 8030: Doctoral Colloquium (Fall 2024)

#### **Undergraduate level (BS):**

Speech Science (Spring 2018, 2019)

### **Guest lectures:**

**Université de Genève (Department of Psycholinguistics and Logopedics), Guest lecturer**  
Language for Cognitive Scientists (Spring 2020, 2021, 2022)

**McGill University (Medical School), Guest lecturer**  
Social Aspects of Language (Fall, 2021)

**Gordon College (Psychology), Guest lecturer**  
Cross-Cultural Linguistics (Spring, Fall 2020)

**Skidmore College (Psychology), Guest lecturer**  
Music Cognition - Speech Rhythm (Spring 2017)

**University of Connecticut (Speech, Language, and Hearing Science), Guest lecturer**  
The psychology of language (Spring 2017)

**University of Connecticut (Speech, Language, and Hearing Science), Guest lecturer**  
Introduction to Phonetic Principles (Fall 2016)

**McGill University (Physical and Occupational Therapy), Guest lecturer**  
Auditory Perception (Fall 2016)

**McGill University (Psychology), Guest lecturer**  
Cross-Linguistic Influences on Language and Thought (Spring 2016)

**Université de Montréal (Psychology), Guest lecturer**  
Méthodologie Scientifique [Scientific Methods] (Fall 2015)

**McGill University (School for Communication Sciences and Disorders), Guest lecturer**  
Neurolinguistics (Spring 2015, Spring 2016)

**Johann Wolfgang Goethe Universität (Linguistics), Frankfurt am Main, Guest lecturer**  
Forschungskolloquium [Research Colloquium] (Spring 2011)

**Johann Wolfgang Goethe Universität (Linguistics), Frankfurt am Main, Guest lecturer**  
Parsingtheorien [Parsing theories] (Fall 2009)

**Leipzig University (Linguistics), Assistant to Instructor**  
Phonetics (Spring 2007, Fall 2007)

### **STUDENT MENTORSHIP/RESEARCH EXPERIENCE**

#### **Undergraduate Research (Role—Primary Advisor):**

<b>Student(s)</b>	<b>Title of project/Conference/Location</b>	<b>Year</b>
Essence Hopkins (Neuroscience, ECU)	Shaping Social Perception: How tDCS Affects Sarcasm Interpretation Across Empathy Groups in the Right TPJ	2025
Dai'Sha Dowson (CSDI, ECU)	How Perspective Shapes Social Behaviors: A Study on Speech Accommodation	2023
Kendal Brice Tyner (CSDI, ECU)	Differences in Politeness Perception of Insincere Language between the UK and the US. ECU CAHS Research Day.	2022
Isaiah Martinez (Computer Science, California State University)	Emotional Vocalizations and Speech Modulate the Processing of Facial Attractiveness	2022
Santiago Rivero (Biomedical Engineering,	The Effect of Task Demands on Processing Emotional Vocalizations and Speech. Biomedical Engineering Society Meeting.	2021

Worcester Polytechnic Institute)		
Mackenzie Rountree (CSDI, ECU)	The Impact of Parkinson's Disease on Social Communication: Behavioral Evidence. ECU CAHS Research Day. (virtual)	2021
Rachel Mansfield (CSDI, ECU)	Implications on Mental Health Due to COVID-19 in Patients with PD. ECU CAHS Research Day. (virtual)	2021
Madison Capps (CSDI, ECU)	The consequences of speech accommodation towards non-native speakers of English. Bilingualism Matters Conference. (virtual)	2020
Emily Ritter (CSDI, ECU)	The Impact of Parkinson's Disease on Social Communication: Eye Tracking Evidence. ECU CAHS Research Day.	2020
Monica Beingolea (CSDI, ECU)	Acoustic Markers of Literal and Nonliteral Language. ECU CAHS Research Day.	2019
Havan Harris (CSDI, ECU)	Affective Responses to Speech Accommodation: A Systematic Review. ECU CAHS Research Day.	2018

#### **Honor's Thesis (Senior Honors Project):**

<b>Student(s)</b>	<b>Program Focus</b>	
Peyton Disser (Biology, ECU)	tDCS and Social Language Processing: Investigating the rTPJ's Role in Sarcasm and Teasing Interpretation	2025
Olivia Mather (CSDI, ECU)	Influence of Cognitive Measures on Social Perception in Parkinson's Disease	2025
Mary-Lynn Dawson (CSDI, ECU)	Influence of Cognitive Measures on Social Perception in Parkinson's Disease	2025
Lacie Allen (CSDI, ECU)	Exploring Emotional Prosody Perception in Adolescents with Hearing Aids: A Scoping Review	2025
Catie Fromm (CSDI, ECU)	Survey for parents of children who participated in speech and/or language therapy delivered via telehealth during the COVID-19 pandemic in the United States.	2023
Hannah Ring (CSDI, ECU)	Dynamic Social Perception in Adults with Autism Spectrum Disorders	2021

#### **Graduate (MS) Research (Role—Primary Advisor):**

<b>Student(s)</b>	<b>Title of project/Conference/Location</b>	<b>Year</b>
Elisha Eanes (CSDI, ECU)	The Role of Speech Accommodation in Cooperative Problem-Solving: An Interactive Game-Based Study	2025
Makyah McNeill (CSDI, ECU)	The Role of Speech Accommodation in Cooperative Problem-Solving: An Interactive Game-Based Study	2025
Julia Scott (CSDI, ECU)	The Impact of the COVID-19 Pandemic on Mental Health in Individuals with Parkinson's Disease. ASHA Convention, New Orleans, USA.	2022
Mackenzie Rountree (CSDI, ECU)	The Impact of Parkinson's Disease on Social Perception. ASHA Convention, Washington DC, USA.	2021
Kim Fleck (CSDI, ECU)	The Impact of Parkinson's Disease on Social Communication. ASHA Convention, Orlando, USA.	2019

#### **Graduate (MS) Student (Role—Committee Member):**

<b>Student(s)</b>	<b>Program Focus</b>
Fatima Jebahi (CSDI, ECU)	Factors correlated to communication confidence in persons with aphasia: a synthetic cohort analysis. (Graduated in 2021)

#### **Graduate (PhD) Student (Role—Primary Advisor):**

Student(s)	Program Focus
Rose Baker (CSDI, ECU)	Speech directed toward older adults. (Ongoing)

**Graduate (PhD) Student (Role—Committee Member):**

Student(s)	Program Focus
Neda Tahmasebifard (CSDI, ECU)	Evaluation of the Levator Veli Palatini Muscle Asymmetry in the Noncleft Population Using MRI and Correlation to Nasopharyngoscopy Findings. (Ongoing)
Saryu Sharma (CSDI, ECU)	Discourse processing in Adults in Aphasia: An Eye tracking study. (Graduated in 2021)
Reid Hlavka (Psychology, ECU)	Examination of a Brief, Self-Paced Online Self-Compassion Intervention Targeting Intuitive Eating and Body Image Outcomes among Men and Women. (Graduated in 2021)
Hana Kim (CSDI, ECU)	Measurement of word retrieval ability in discourse of persons with aphasia: development of standard core lexicon item. (Graduated in 2020)

**PROFESSIONAL DEVELOPMENT & TRAINING EXPERIENCES**

2023	Data Sharing in Science Policy: Foundations, Current Policies and Practices, and Future Directions. East Carolina University.
2022	Exploring Anti-Racism in Health Professions Education. American Association of Colleges of Nursing.
2020	Reserve and Resilience in Cognitive Aging and Dementia Workshop. NIA.
2020	Inclusion Across the Lifespan-II (IAL-II) Workshop. NIH.
2020	Training in Grantsmanship for Rehabilitation Research. Medical University of South Carolina.
2019	Open grant writing tutorial. East Carolina University
2018	Teaching Practices Discussion Group. East Carolina University.
2017	Webinar: Principles of Effective Course Design. University of Connecticut.
2017	J-Term workshop and lectures on the neurobiology of language. University of Connecticut.
2016	Workshop: Introduction to data analysis using R. McGill University.
2016	CRBLM/BRAMS Workshop on Mobile EEG. Université de Montréal. May 27th.
2015	Staff-Student Mentoring Program at McGill University.
2014	CRBLM Workshop on Dance, Music, Cognition and the Brain. Université de Montréal.
2008	Neuroanatomy Workshop. University of Tübingen, Germany.
2008	Workshop "Musical Movement and Synchronization". MPI CBS, Leipzig, Germany.

**SERVICE**

2023	Grant review panelist for the Swiss National Science Foundation (SNSF)
2023	Grant review panelist for the Parkinson's Association of Ireland
2023	Grant review panelist for the American Speech-Language-Hearing Foundation (ASHF)
2018 - present	Member, Aging Network, College of Allied Health, East Carolina University
2019 - present	Member, CSDI Undergraduate Committee
2019 - present	Co-chair, CSDI Student Research Grant
2019 - present	Member, Diversity Committee, College of Allied Health Diversity Committee, East Carolina University
2017 - 2022	Facilitator Parkinson's Support Group, Cypress Glen Retirement Community

**Ad-hoc review:** *Neuropsychology, Brain and Language, Brain, Biological Psychology, Brain Research, Second Language Research, NeuroImage, Frontiers in Neuroscience, PLOS ONE, Neuropsychologia, Frontiers in Psychology, Journal of Nonverbal Behavior, Scientific Report, Journal of Vision, Journal of Speech, Language, and Hearing Research*

**Conference Organization**

Acoustical Society of America, Symposium chair (2018)  
Volunteer, Organization for Human Brain Mapping (2016)  
Volunteer, Organization for Human Brain Mapping (2015)

Executive Member of the Student and Postdoc Section, Organization for Human Brain Mapping (since 2013)

## **COMMUNITY INVOLVEMENT/OUTREACH**

- 2022 Interview with Channel 12 about our work on Parkinson's Disease:  
<https://wcti12.com/news/local>
- 2022 Article by the BBC about our work on the use of sarcasm during the COVID-19 Pandemic, available at: <https://www.bbc.com/future/article/20211110>
- 2020 Rothermich, K. (2020) Do They Really Mean it? (German title: Meinst Du das wirklich?). Gehirn und Geist (German issue of Scientific American).
- 2016 The Academic Minute (WAMC Northeast Public Radio): Short piece about the RISC database, available at: <https://academicminute.org/2016/01/rothermich-mcgill-university-social-communication/>
- 2015 Article about RISC database (in German), available at  
<http://www.aponet.de/20151201>
- 2015 Article about the RISC database, available at  
<https://www.independent.co.uk/news/>
- 2015 McGill University – Newsroom: “How can I tell if they're lying?” , available at:  
<https://www.mcgill.ca/news/256951>

## **LANGUAGES**

German reading: native speaking: native writing: native

English reading: fluent speaking: fluent writing: fluent

French reading: good speaking: conversational writing: conversational

## **PROFESSIONAL MEMBERSHIPS**

Acoustical Society of America

American Speech-Language-Hearing Association

Women in Cognitive Sciences

Society for the Neurobiology of Language