

Kyle MacDonald, PhD

CONTACT INFORMATION	<i>Phone:</i> 860-324-7315 <i>E-mail:</i> kylem412@gmail.com <i>www:</i> kemacondonald.com <i>github:</i> https://github.com/kemacondonald	
ACADEMIC APPOINTMENTS	Postdoctoral Researcher , UCLA Emergence of Communication Lab Research advisor: Anne Warlaumont Department of Communications University of California, Los Angeles	2018 - 2019
EDUCATION	Stanford University , Stanford, CA Ph.D. in Developmental Psychology <ul style="list-style-type: none">• Thesis: <i>Children's information seeking during signed and spoken language processing</i>• Advisor: Michael C. Frank• Committee: Michael C. Frank (chair), Hyowon Gweon, Virginia Marchman, Jay McClelland, & Judith Degen (external chair) Wesleyan University , Middletown, CT B.A. with high honors in Psychology <ul style="list-style-type: none">• Thesis: <i>Group membership disrupts preschoolers' selective learning</i>• Advisor: Hilary Barth	November 2018
HONORS, FELLOWSHIPS, AND AWARDS	Stinehart-Reed Graduate Fellowship, Stanford University Graduate Research Fellowship, National Science Foundation Norman H. Anderson Travel Award, Stanford University High Honors in Psychology, Wesleyan University Walkley Prize for Excellence in Psychological Research, Wesleyan University Quantitative Analysis Center Research Fellowship, Wesleyan University Tomasso Scholarship, Kingswood-Oxford	2017 - 2018 2014 - 2017 2016, 2018 2010 2010 2008 2006
JOURNAL PUBLICATIONS	<ol style="list-style-type: none">1. Martin Zettersten, Daniel Yurovsky, Tian Linger Xu, Sarp Uner, Angeline Sin Mei Tsui, Rose M. Schneider, Annissa N. Saleh, Stephan C. Meylan, Virginia A. Marchman, Jessica Mankewitz, Kyle MacDonald, Bria Long, Molly Lewis, George Kachergis, Kunal Handa, Benjamin deMayo, Alexandra Carstensen, Mika Braginsky, Veronica Boyce, Naiti S. Bhatt, Claire Augusta Bergey & Michael C. Frank (2022). Peekbank: An open, large-scale repository for developmental eye-tracking data of children's word recognition <i>Behavior Research Methods</i>2. Hardwicke, T. E., Bohn, M., MacDonald, K., Hembacher, E., Nuijten, M. B., Peloquin, B. N., deMayo, B., Long, B., Yoon, E. J., & Frank, M. C. (2021). An assessment of analytic reproducibility for articles with open data badges at the journal Psychological Science. <i>Royal Open Science Society</i>.	

3. **MacDonald, K.**, Marchman, V.A., Fernald, A., & Frank, M.C. (2020) Children flexibly seek visual information during signed and spoken language comprehension. *Journal of Experimental Psychology: General*.
 4. **MacDonald, K.**, LaMarr, T., Corina, D., Marchman, V.A., & Fernald, A. (2018). Real-time lexical comprehension in young children learning American Sign Language. *Developmental Science*.
 5. Sanchez, A., Meylan, S., Braginsky, M., **MacDonald, K.**, Yurovsky, D., & Frank, M. C. (2018). childes-db: a flexible and reproducible interface to the Child Language Data Exchange System (CHILDES). *Behavior research methods*.
 6. Hardwicke, T. E., Mathur, M. B., **MacDonald, K.**, Nilsonne, G., Banks, G. C., Kidwell, M.C., Hofelich-Mohr, A., Clayton, E., Yoon, E.J., Tessler, M.H., Lenne, R., Altman, S., Long, B., & Frank, M.C. (2018). Data availability, reusability, and analytic reproducibility: Evaluating the impact of a mandatory open data policy at the journal Cognition. *Royal Society open science*.
 7. **MacDonald, K.**, Yurovsky, D., & Frank, M.C. (2017). Social cues modulate the representations underlying cross-situational learning. *Cognitive Psychology*, 94, 67–84.
 8. Barth, H., Bhandari, K., Garcia, J., **MacDonald, K.**, & Chase, E. (2014). Preschoolers trust novel members of accurate speakers? groups and judge them favorably. *Quarterly Journal of Experimental Psychology*, 67, 872-883.
 9. **MacDonald, K.**, Schug, M., Chase, E. & Barth, H. (2013). My People, Right or Wrong? Minimal Group Membership Disrupts Children’s Selective Trust in Testimony. *Cognitive Development* 28, 247-259.
- PEER-REVIEWED
CONFERENCE
PUBLICATIONS
10. **MacDonald, K.**, Casillas M., Räsänen O., & Warlaumont, A. (2020). Measuring prosodic predictability in children’s home language environments. *Proceedings of the 42nd Annual Meeting of the Cognitive Science Society*.
 11. **MacDonald, K.**, Swanson E. & Frank, M.C. (2019). Integration of gaze information during online language comprehension and learning. *Proceedings of the 41st Annual Meeting of the Cognitive Science Society*.
 12. **MacDonald, K.**, Marchman, V.A., Fernald, A., & Frank, M.C. (2018). Adults and preschoolers seek visual information to support language comprehension in noisy environments. *Proceedings of the 40th Annual Meeting of the Cognitive Science Society*.
 13. Yoon, E.J.*, **MacDonald, K.***, Asaba M., Gweon, H., & Frank, M.C. (2018). Balancing informational and social goals in active learning. *Proceedings of the 40th Annual Meeting of the Cognitive Science Society*. [* co-first authors]
 14. **MacDonald, K.**, Blonder, A., Marchman, V.A., Fernald, A., & Frank, M.C. (2017). An information-seeking account of eye movements during spoken and signed language processing. *Proceedings of the 39th Annual Meeting of the Cognitive Science Society*.
 15. Frank, M.C., Lewis, M.L., & **MacDonald, K.**, (2016). A performance model for early word learning. *Proceedings of the 38th Annual Meeting of the Cognitive Science Society*.

16. **MacDonald, K.**, & Frank, M.C. (2016). When does passive learning improve the effectiveness of active learning? *Proceedings of the 38th Annual Meeting of the Cognitive Science Society.*
17. **MacDonald, K.**, Yurovsky, D., & Frank, M.C. (2015). Referential cues modulate attention and memory during cross-situational word learning. *Proceedings of the 37th Annual Meeting of the Cognitive Science Society.*

INVITED TALKS

- University of California, LA**, Developmental Psychology Colloquium 2018
- Santa Clara University**, Read Lab Meeting 2018
- Stanford University**, Cognitive Science Colloquium 2018
- Rochester Institute of Technology**, Workshop on Multi-modal Outcomes 2016

OUTREACH
ACTIVITIES

- Early Hearing Detection & Intervention Meeting**, San Diego, CA 2016
- Deaf Counseling, Advocacy, and Referral Agency**, San Leandro, CA 2013
- California School for the Deaf**, Fremont, CA 2013

CONFERENCE
ORGANIZATION

Symposium: New Approaches to Understanding Human Language: Insights from Neuroimaging and Behavioral Studies of Visual Language Learning, 2013 Meeting of the Society for Research in Child Development, *Chair*

CONFERENCE
TALKS

1. **MacDonald, K.**, Marchman, V.A., Fernald, A., & Frank, M.C. (2018). Adults and preschoolers seek visual information to support language comprehension in noisy environments. Presented at the *40th Annual Meeting of the Cognitive Science Society.*
2. **MacDonald, K.**, Marchman, V.A., Fernald, A., & Frank, M.C. (2018). An information-seeking account of eye movements during spoken and signed language processing. Presented at the *Biennial International Conference on Infant Studies.*
3. **MacDonald, K.**, Blonder, A., Marchman, V.A., Fernald, A., & Frank, M.C. (2017). An information-seeking account of eye movements during spoken and signed language processing. Presented at the *39th Annual Meeting of the Cognitive Science Society.*
4. **MacDonald, K.**, & Frank, M.C. (2016). When does passive learning improve the effectiveness of active learning? Presented at the *38th Annual Meeting of the Cognitive Science Society.*
5. **MacDonald, K.**, LaMarr, T., Corina, D., Marchman, V.A., & Fernald, A. (2016). Development of young children's skill in real-time processing of American Sign Language. Presented at the *Early Hearing Detection & Intervention Meeting.*
6. **MacDonald, K.**, Yurovsky, D., & Frank, M.C. (2015). Social cues modulate the strength of encoding alternative referents in cross-situational word learning. Presented at the *Biennial Meeting of the Society for Research in Child Development.*
7. **MacDonald, K.**, Yurovsky, D., & Frank, M.C. (2015). Referential cues modulate attention and memory during cross-situational word learning. Presented at the *37th Annual Meeting of the Cognitive Science Society.*

8. **MacDonald, K.**, Corina, D., Marchman, V., & Fernald, A. (2013). Age-related changes in children's real-time American Sign Language sentence processing. Presented at the *Biennial Meeting of the Society for Research in Child Development*.
9. Bion, R., **MacDonald, K.**, & Fernald, A. (2013). M-o-o-s as cues: Young children map novel animal vocalizations to unfamiliar animals. Symposium submitted to the *Biennial Meeting of the Society for Research in Child Development*.
10. **MacDonald, K.**, Swanson E. & Frank, M.C. (2019). Integration of gaze information during online language comprehension and learning. Presented at the *41st Annual Meeting of the Cognitive Science Society*.
11. **MacDonald, K.**, Blonder, A., Marchman, V.A., Fernald, A., & Frank, M.C. (2016). Speed-accuracy tradeoffs during real-time language comprehension in children learning English and American Sign Language. Presented at the *Biennial International Conference on Infant Studies, New Orleans, LA*
12. **MacDonald, K.**, Corina, D., Marchman, V., & Fernald, A. (2013). Real Time Processing of ASL in Deaf and Hearing Native-Signing Infants. Presented at the *Biennial Meeting of the Society for Research in Child Development*.
13. **MacDonald, K.**, Bion, R., Adams, K., Marchman, V., Hurtado, N., & Fernald, A. (2012). M-o-o-s as cues: Young children map novel animal vocalizations to unfamiliar animals. Presented at the *Biennial International Conference on Infant Studies*.
14. **MacDonald, K.**, Schug, M., & Barth, H. (2011). My people, right or wrong? Minimal group membership disrupts children's selective trust in testimony. Presented at the *Biennial Meeting of the Society for Research in Child Development*
15. Slusser, E., Garcia, J., **MacDonald, K.**, Acheampong, A., Kanjlia, T., & Barth H. (2011). Evidence that proportion-judgment models explicate children's performance on number-line estimation tasks. Presented at the *Meeting of the Eastern Psychological Association*.
16. Barth, H., Garcia, J., Slusser, E., **MacDonald, K.**, Acheampong, A., Kanjlia, S., & Santiago, R. (2011). Proportional reasoning shapes children's number-line estimates. Presented at the *Biennial meeting of the Society for Research in Child Development*.
17. Sullivan, J., **MacDonald, K.**, Paladino, A., & Barth, H. (2009). Children's mappings of number words to large numerosities. Presented at the *Biennial meeting of the Society for Research in Child Development*.
18. Schug, M., Patalano, A., Barth, H., Shusterman, A., Herrig, E., & **MacDonald, K.** (2009). Group bias, statistical reasoning, and social judgments. Presented at the *Biennial meeting of the Cognitive Development Society*.
19. **MacDonald, K.** & Barth, H. (2008). Learning the meaning of large number words. Presented at the *Quantitative Analysis Center Research Symposium*.

CONFERENCE
POSTERS

TEACHING AND
DEPARTMENTAL
SERVICE

Co-instructor

1. PSYCH 113S: Developmental Psychology 2016

Teaching Assistant

2. Introduction to Statistical Methods (Head TA, Stanford) 2017
 3. Introduction to Developmental Psychology 2016
 4. Learning and Memory 2016
 5. Introduction to Psychology 2016
 6. Introduction to Developmental Psychology 2015
 7. Introduction to Psychology 2014

Guest Lecturer

8. *Sign Language*, Communication Development 2019
 9. *Language*, Introduction to Psychology 2018
 10. *Sign Language Acquisition*, Language Acquisition 2018
 11. *Language*, Introduction to Psychology 2017
 12. *Language*, Introduction to Psychology 2017
 13. *Sign Language Development*, Seminar on Infancy Research 2016

Other Departmental Service

14. Graduate Program Committee member 2016 - 2018
 15. Developmental area graduate admissions committee member 2016, 2017
 16. Co-organizer for Prospective Students Weekend 2016
 17. Co-organizer for Developmental Area Brownbag talk series 2014-15, 15-16

MENTORSHIP

UCLA, Emergence of Communication Lab

- Curt Chang, Research Intern 2019
 Vicky Chen, Research Intern 2019

Stanford University, Department of Psychology

- Elizabeth Swanson, Psychology Research Intern 2018-2019
 Kayla Constandse - Symbolic Systems Research Intern 2018
 Melina Wailing, Psychology Research Intern 2016 - 2017
 Tami Alade, HumBio Research Intern 2017
 Hannah Slater, HumBio Research Intern 2017
 Aviva Blonder, CSLI Research Intern 2016
 Allison Dods, Symbolic Systems honors student 2015 - 2016

Stanford University, Language Learning Lab (2010-2013)

Brittany Margot, Sara Rodriguez, Mofeda Dababo, Alberto Lalama,
 Tiana Moore, Rupa Mahajan, Stacey Christiansen, Samara Nichols, Amanda
 Rost, Mary Kate Smith, Lucy Martinez, Ron Pomper, Sazan Ghafur, Erica
 Carillo, Ximena Apuero, George Bridges, Monica Ellwood-Lowe, Vivian Chen,
 Armince Garcia Barker, Kelly Ann Conley, Juan Flores, Riel LaPlant, Nandita
 Kumar, Chierika Ukogu, Alex Ritchie, McKenzie Culler, Guadalupe Ramirez

PROFESSIONAL MEMBERSHIPS AND SERVICE	<p>Co-organizer and Pre-Pi Representative on the DARCLE board 2019 - 2020</p> <p>Cognitive Science Society, Member, 2015 - 2021</p> <p>International Society for Infant Studies, Member, 2012 - 2020</p> <p>Society for Research in Child Development, Member, 2012 - 2020</p> <p>Ad-hoc reviewer for: Journal of Experimental Child Psychology, Cognitive Development, Cognition, Developmental Psychology, Proceedings of the Cognitive Science Society, IEEE Transactions on Cognitive and Developmental Systems, Infant Behavior and Development</p>
ADDITIONAL RESEARCH EXPERIENCE	<p>Apprente 2018 - 2019</p> <p>Scientific consultant for developing artificial intelligence conversational agents</p> <p>Department of Psychology, Stanford University 2010 - 2013</p> <p>Scientific consultant, Senegal Tostan Evaluation (PI: Anne Fernald)</p> <p>Lab Manager, Language Learning Lab (PI: Anne Fernald)</p> <p>Department of Psychology, Wesleyan University 2008 - 2010</p> <p>Research assistant, Cognitive Development Lab (PI: Hilary Barth)</p>
OPEN & REPRODUCIBLE SCIENCE PROJECTS	<p>cogsci2016: R-package for writing a reproducible submission to the Annual Meeting of the Cognitive Science Society [https://github.com/kemacdonald/cogsci2016]</p> <p>chilides-db: a flexible and reproducible interface to the Child Language Data Exchange System (CHILDES) [http://chilides-db.stanford.edu/]</p> <p>chilidesr: R package for accessing data in the chilides-db system [https://langcog.github.io/chilidesr//index.html]</p> <p>peekbank: A flexible and reproducible interface to developmental eyetracking datasets [https://peekbank.stanford.edu]</p> <p>homebank-db: A flexible and reproducible interface to naturalistic, daylong audio recordings</p> <p>Cognition Open Data Project: Data availability, reusability, and analytic reproducibility: Evaluating the impact of a mandatory open data policy at the journal Cognition [https://osf.io/wn8fd/]</p> <p>CARPS: An assessment of analytic reproducibility at Psychological Science [https://osf.io/n3dej/]</p>
TECHNICAL SKILLS	<p><i>Natural languages</i>: English, American Sign Language</p> <p><i>Programming languages</i>: Python, R, JavaScript, HTML/CSS</p> <p><i>Data science</i>: data visualization, statistics (bayesian and frequentist approaches), experimental design, eye-tracking methods, natural language processing, git, github</p>

ACADEMIC
REFERENCES

Dr. Anne Warlaumont

Postdoc Advisor (2018-2019)

Department of Communications

UCLA

warlaumont@ucla.edu

Dr. Michael Frank

Ph.D. Advisor (2013-2018)

Department of Psychology

Stanford University

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Dr. Virginia Marchman

Collaborator (2010-2018)

Department of Psychology

Stanford University

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