

Curriculum Vitae

Stephanie L. Archer

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Little Magpies Lab for Infant Language Learning (ASH 1-50)

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Keywords: infant speech perception, infant-directed speech, infant/toddler language development, sound symbolism, phonology, phonetics

RESEARCH INTERESTS

My research primarily focuses on early speech perception and the development of the lexicon. I am interested in how the speech input affects the developing perceptual system and what types of information are useful in word learning. Currently, I have two main, but related, research interests:

Using speech to acquire language: I examine the properties of speech that are useful to infants when learning their native language.

Sound symbolism in early development: I have been investigating whether sound symbolism can be used (or is used) as a tool to develop how infants learn words.

ACADEMIC POSITIONS

July 2018 to Present	Director of the Little Magpies Lab for Infant Language Learning, University of Alberta
July 2023 to Present	Associate Professor, Department of Linguistics, University of Alberta
July 2017 to June 2023	Assistant Professor, Department of Linguistics, University of Alberta
November 2016 to July 2017	Postdoctoral Research Fellow, Department of Psychology, University of Calgary, Calgary, Alberta, Canada
October 2013 to October 2016	Postdoctoral Research Fellow, Department of Psychology, University of Warwick, Coventry, UK
August 2012 to August 2013	Postdoctoral Research Fellow, School of Communication Sciences and Disorders, McGill University, Montreal, PQ, Canada

EDUCATION

2008 to 2012	Ph.D., Linguistics, University of Calgary, Calgary, AB, Canada Dissertation: "Infant Perception of Phonotactics: The Roles of Statistical Frequency and Acoustic Salience"
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Supervisor: Dr. S. Curtin

2006 to 2008

M.A., Linguistics, University of Calgary, Calgary, AB, Canada
Supervisor: Dr. S. Curtin

1992 to 1997

B.A., Linguistics, University of Calgary, Calgary, AB, Canada

PUBLICATIONS

- Sidhu, D., Athanasopoulou, A., **Archer, S. L.**, Czarnecki, N., Curtin, S., & Pexman, P. M. (2022 accepted). The Maluma/takete Effect Is Late: No Longitudinal Evidence for Shape Sound Symbolism in the First Year. *PlosOne*.
- Archer, S.L.**, Czarnecki, N., & Curtin, S. (2021). Boosting the input: 9-month-olds' sensitivity to low frequency phonotactic patterns in novel wordforms. *Infancy*, 26(5), 745-755.
- Archer, S.L.**, & Curtin S. (2018). Fourteen-month-olds' sensitivity to acoustic salience in minimal pair word learning. *Journal of Child Language*, 45, 1198-1211.
- Archer, S.L.**, & Curtin, S. (2016). Nine-month-olds use frequency of onset clusters to segment novel words. *Journal of Experimental Child Psychology*, 148, 131-141.
- Archer, S.L.**, Zamuner, T., Engel, K., Fais, L., & Curtin, S. (2016). Infants' discrimination of consonants: interplay between word position and acoustic saliency. *Language Learning and Development*, 12(1), 60-78.
- Archer, S.L.**, Ference, J., & Curtin, S. (2014). Now you hear it: 14-month-olds succeed at learning minimal pairs in stressed syllables. *Journal of Cognition and Development*, 15(1), 110-122.
- MacKenzie, H.K., Graham, S.G., Curtin, S., & **Archer, S.L.** (2014). The flexibility of 12-month-olds' preferences for phonologically appropriate object labels. *Developmental Psychology*, 50(2), 422-430.
- Archer, S.L.** & Curtin, S. (2011). Perceiving onset clusters in infancy. *Infant Behavior and Development*, 4, 534-540.

IN PREPARATION

- Archer, S.L.**, Curtin, S., & Polka, L. (**in prep**). English and French 9-month-olds discrimination of phonotactics onsets.

CONFERENCE PROCEEDINGS

- Archer, S.L.**, Curtin, S., & Polka, L. (2013). Effects of acoustic variability on infant speech perception. Proceedings of Meetings on Acoustics (21st International Congress on Acoustics and 165th Acoustical Society of America Meeting). Montreal, Canada, June.
- Engel, K., **Archer, S.L.**, & Curtin, S. (2013). The effects of voicing and position in infants' perception of coda consonants. Proceedings of Meetings on Acoustics (21st International Congress on Acoustics and 165th Acoustical Society of America Meeting). Montreal, Canada, June.

BOOK CHAPTERS

Curtin, S. & **Archer, S.L.** (2015). Speech Perception. In Bavin, E. (Ed.), *The Cambridge University Press Handbook of Child Language* (2nd edition). Cambridge: Cambridge University Press.

SCHOLARLY PRESENTATIONS

**denotes student co-author*

Archer, S.L. (2022). SoundsOnline.ca: A collaborative web portal for sound studies online. Invited talk for the Sound Studies Institute, University of Alberta, Edmonton, Canada, 26th of October.

Archer, S.L., Curtin, S., & Polka, L. (2022 July 7-10) 9-month-old English and French infants' discrimination of complex onsets. Poster presentation for the International Conference of Infant Studies (ICIS). Ottawa, Canada.

*Li, J., *Tu, R., *Yaceyko, T., Duffy, H., Kita, S., & **Archer, S.L.** (2021 November 6) Do mothers' speech differently when a word is new? Investigating prosodic features of infant-directed speech across English dialects. Oral presentation for the Alberta Conference on Linguistics (ACOL). Edmonton, Canada.

*Tu, R., *Yaceyko, T., *Li, J., **Archer, S.L.**, Duffy, H., & Kita, S. (2021 August 25-27) Differences in acoustics and lexical items across dialects of English infant-directed speech. Poster presentation for the 6th Lancaster International Conference on Infant and Early Child Development (LCICD 2021). Lancaster, UK.
<http://wp.lancs.ac.uk/lcid/>

Archer, S.L., Czarnecki, N., & Curtin, S. (2021 June 17-18) Infants' word segmentation of low statistical frequency in onset phonotactics. Poster presentation for the Canadian Society for Brain, Behaviour, and Cognitive Science Annual Meeting 2021, Montreal, Canada. <http://event.fourwaves.com/csbbs2021/pages>.

*Yaceyko, T. & **Archer, S.L.** (2020 October 16-18) Differences in specific characteristics across dialects of English infant-directed speech. WoW International Conference. St. Catharines, Canada. <http://wordsintheworld.ca/>.

*Galloway, M., **Archer, S.L.**, Duffy, H., & Kita, S. (2020 July 6-9). Does mothers' speech to infants emphasize target words based on familiarity? [Poster session canceled]. International Conference of Infant Studies. Glasgow, UK.

Archer, S.L., Curtin, S., & Czarnecki, N. (2020 July 6-9). Low statistical frequency of onset clusters in infant word segmentation. Poster presentation for the International Conference of Infant Studies. Glasgow, UK.
<https://infantstudies.org/congress-2020/>

Archer, S.L., Curtin, S., & Mihalicz, P. (2020 July 6-9). 12-month-olds acquired distinctiveness bolsters coda contrasts. Poster presentation for the International Conference of Infant Studies. Glasgow, UK.
<https://infantstudies.org/congress-2020/>

Athanasopoulou, A., Sidhu, D., Czarnecki, N., **Archer, S.L.**, Curtin, S., & Pexman, P. (2020 July 6-9). Tracking the development of shape sound symbolism in the first year of life. Poster presentation for the International Conference of Infant Studies. Glasgow, UK. <https://infantstudies.org/congress-2020/>

Archer, S.L., *Galloway, M., *Bao, W., Duffy, H., & Kita, S. (2019). Do mothers prefer monkeys over nembees? Oral presentation for Acoustic Week in Canada. Edmonton, Canada, October.

Athanasopoulou, A., Sidhu, D., **Archer, S.L.**, Curtin, S., & Pexman, P.M. (2018). The origins of sound symbolism. Oral presentation for the International Conference on the Mental Lexicon (MenLex2018). Edmonton, Canada, September.

- Sidhu, D.M., Athanasopoulou, A., **Archer, S.L.**, Curtin, S., & Pexman, P.M. (2018). Investigating infant sensitivity to sound symbolism. Oral presentation for the Annual Meeting of the Psychonomics Society. New Orleans, USA, November.
- Kita, S., **Archer, S.L.**, Saji, N., & Imai, M. (2017). Sound symbolism bootstraps development: Studies on infant word learning and on parental input. Oral presentation for the 14th International Congress for the Study of Child Language. Lyon, France, July.
- Archer, S.L.** & Kita, S. (2017). Sound symbolism in development: Two possible influences in word learning. Symposium talk presentation at the 2017 Canadian Society for Brain, Behaviour and Cognitive Science Meeting. Regina, Canada, June.
- Archer, S.L.** & Kita, S. (2017). Sound symbolism influences mapping of arbitrary word-object pairs. Poster presentation at the 2017 Society for Research in Child Development Biennial Meeting. Austin, USA, April.
- Archer, S.L.** (2016). Infants track statistical regularities in speech: but how do we learn what they learn? Lightning Talk presentation at the 1st Annual Conference on Child Language Acquisition Research in Alberta.
- Archer, S.L.**, Curtin, S., & Polka, L. (2016). Acoustic factors drive 9-month-old English and French infants' discrimination of speech sound contrasts. Poster presentation at the 2016 International Conference of Infant Studies, New Orleans, USA, May.
- Archer, S.L.** & Kita, S. (2016). Does the presence of sound symbolic words boost learning of non-sound symbolic words? Poster presentation at the 2016 International Conference of Infant Studies, New Orleans, USA, May.
- Duffy, H., **Archer, S.L.**, & Kita, S. (2015). Cross-dialectal differences in English Infant Directed Speech. Oral presentation at the 2015 Child Language Symposium. Coventry, UK, July.
- Archer, S.L.**, Ference, J., Mihalicz, P., & Curtin, S. (2015). 14-month-olds' representations include word-initial unstressed syllables. Poster presentation at the 2015 Society for Research in Child Development Biennial Meeting. Philadelphia, USA, March.
- Archer, S.L.** & Curtin, S. (2014). Statistical frequency of stop-liquid onset clusters in infant word segmentation. Poster presentation at the 2014 International Conference of Infant Studies, Berlin, Germany, July.
- Engel, K., **Archer, S.L.**, & Curtin, S. (2013). 12-month-olds' ability to perceive coda consonants: Effects of position and voicing. Poster presentation at the 2013 Society for Research in Child Development Biennial Meeting. Seattle, USA, April.
- Archer, S.L.** (2013). Infant perception of phonotactics: The roles of statistical frequency and acoustic salience. Invited talk for the Theoretical & Experimental Innovations in Bilingualism Research series at the Language Resource Center, University of Calgary, Calgary, Canada, February.
- Curtin, S., & **Archer, S.L.** (2013). I said wabbit not wabbit. Toddlers' acquisition of liquids. Invited talk for the Auditory Cognitive Neuroscience Conference, University of Arizona, Tucson, USA, January.
- Archer, S.L.** & Curtin, S. (2013). Phonotactic legality of onsets in word segmentation. Poster presentation at the 87th Annual meeting of the Linguistic Society of America. Boston, USA, January.
- Polka, L. & **Archer, S.L.** (2012). Navigating two languages in infancy. Oral presentation at the Bilingualism and Neurocognitive Change over the Lifespan Workshop offered through the Center for Research on Brain, Language, and Music at McGill University. Montreal, Canada, October.
- Archer, S.L.** & Curtin, S. (2012). The influence of acoustic salience on 14-month-olds' ability to learn minimal pairs. Poster presentation at XVIII Biennial International Conference on Infant Studies. Minneapolis, USA, June.

- Archer, S.L.** & Curtin, S. (2012). Acoustic salience influences 14-month-olds' ability to learn minimal pairs. Oral presentation at the 86th Annual meeting of the Linguistic Society of America. Portland, USA, January.
- Archer, S.L.** & Curtin, S. (2011). Acoustic variability affects asymmetry in infant speech discrimination. Poster presentation at the 162nd Meeting of the Acoustical Society of America. San Diego, USA, October.
- Archer, S.L.** & Curtin, S.L. (2011). Infants' discrimination of attested and unattested stop-liquid onset clusters. Poster presentation at the 2011 Society for Research in Child Development Biennial Meeting. Montreal, Canada, April.
- Curtin, S., **Archer, S.L.**, & Ference, J. (2011). Word stress facilitates detection of minimal contrasts. Oral presentation at the Society for Research in Child Development Biennial Meeting. Montreal, Canada, April.
- Archer, S.L.** & Curtin, S.L. (2011). Infants' discrimination of attested and unattested stop-liquid onset clusters. Poster presentation at the 85th Annual Meeting of the Linguistic Society of America. Pittsburgh, USA, January.
- Archer, S.L.** & Curtin, S.L. (2008). Infant perception of language specific onset phonotactics. Poster presentation at the XVIth International Conference on Infant Studies. Vancouver, Canada, March.
- Archer, S.L.** & Curtin, S.L. (2008). Infant perception of language specific onset phonotactics. Oral presentation at the 34th Boston University Conference on Language Development. Boston, USA, October.
- Archer, S.L.** & Curtin, S.L. (2008). Infant perception of language specific onset phonotactics. Oral presentation at the Alberta Conference on Linguistics. Banff, Canada, September.

OTHER

1. [SoundsOnline.ca](https://soundstudies.ca). Sound Studies Institute (2022, February 15) *Sounds online: A collaborative web portal for sound studies online and in-person project*. Seed Grant Proposal.
Interview (Feb 2022): <https://soundstudies.ca/2022/02/15/soundsonline-ssi-seed-grant-profile/>

SoundsOnline.ca is a web portal for online studies and a work in progress. I, along with my co-I (A. Arnhold), were awarded a seed grant proposal (\$5000). In 2021, we conducted a small experiment with success, titled: On Combining Consonants. We are currently preparing another online experiment to entice other researchers to the project.
2. "Prof Spotlight" Interview from the Undergraduate Linguistics Association.

GRANTS & FUNDING

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| 2020 – 2023 | Social Sciences and Humanities Research Council (SSHRC)
Insight Development Grant: ' <i>Sound Symbolism may bootstrap infant word learning.</i> ' with Dr. P. Pexman (Co-I). Amount granted: \$68,913. 2023-2024 extension. |
| 2020 - 2021 | Sound Studies Institute Seed Grant
U of Alberta: ' <i>Sounds online: A collaborative web portal for sound studies online and in-person projects.</i> ' with Dr. A. Arnhold (Co-I). Amount granted: \$5000. |
| November 2019 - March 2021 | Support for the Advancement of Scholarship Research Fund (SAS)
U of Alberta, Faculty of Arts (COVID-19 extension): <i>Mothers' infant-directed speech across dialects of English</i> . Amount granted: \$6,399. |

January 2019 **Capital Equipment Recruitment Fund (CERF) Special Grant**
U of Alberta, Faculty of Arts. Grant for new equipment for the Little Magpies Lab. Amount granted: \$8,383.72

December 2017 – March 2018 **Supplementary GRA Funding Competition**
U of Alberta, Faculty of Arts. Grant for a project titled “*Cross-dialectal differences between infant-directed and adult-directed speech and individual differences in infancy.*” hiring GRA. Amount granted: \$2,200.

2017 – 2022 **Faculty of Arts Lab Start Up Grant, University of Alberta**
U of Alberta, Faculty of Arts. Amount granted: \$65,000

2017 – 2021 **Faculty of Arts Research Start Up Grant, University of Alberta**
U of Alberta, Faculty of Arts. Amount granted: \$15,000 (\$5,000 per year)

Student Awards

2011- 2012 Queen Elizabeth II Doctoral Scholarship (\$10,000)

2010 – 2011 Queen Elizabeth II Doctoral Scholarship (\$10,000)

2008 Alberta Heritage Fund (\$2,000)

STUDENT SUPERVISION

Supervision of PhD Student (as a supervisory committee member)

M.C. Kelley. Dissertation defense completed November 2021. University of Alberta. Title: *Acoustic Distance, Acoustic Abasement, and the Lexicon*. [supervisory committee member since 2018; supervisor: Dr. B. Tucker]

Candidacy Defense

M.C. Kelly (April 1, 2020) *Acoustic distance and its role in spoken word recognition*

Supervision of MSc Students (as supervisor)

J. Li. Course-based program completed June 2022. University of Alberta. Title: *Do mother speak differently when a word is new? Investigating prosodic features of child-directed speech across English dialects*. Second reader: Dr. A. Arnhold.

Supervision of Graduate Research Assistants

1. J. Li.

- (1st of May to 30th of June, 2021, SAS 2021) Project: *Mothers’ infant-directed speech across dialects of English*.
- (1st of July to 31st of August, 2021, SSHRC IDG 430-2020-00710) Project: *Iconic words may scaffold learning of non-iconic word*.

2. W. Bao (1st of May – 31st of July, 2019, Department of Linguistics). Project: *Transatlantic dialects of infant-directed speech*.

3. R. Puderbaugh (December 2018 – February 2019, Faculty of Arts, Supplementary GRA Funding). Project: *Cross-dialectal differences between infant-directed and adult-directed speech and individual differences in infancy*.

Supervision of BA Honours Students (as supervisor)

1. K.C.. Completed April 2022. *The effects of sound symbolism on word learning*. Second reader: Dr. H. Colston.
2. A.H.. Completed April 2019. *Onomatopoeia in Canadian mothers' input: Exploratory pilot study*. Second reader: Dr. A. Arnhold.
3. M.G.. Completed April 2019. *Effects of utterance position and familiarity on mothers' production of labels: An acoustic analysis of child-directed speech*. Second reader: Dr. A. Arnhold.

Undergraduate Student Awards and Funding

Roger S. Smith Grant (Faculty of Arts, University of Alberta)

- August 2021 *The effects of sound symbolism on word learning of 4- to 5-year-old children.*
Awarded to K.C.: \$5000
- August 2020 *Differences in specific characteristics across dialects of English infant-directed speech.* Awarded to T.Y.: \$5000

University of Alberta Research Experience (UARE)

- January to April 2018 R.X. *Differences in English dialects of child-directed speech.*
Funding from UARE and University of Alberta, Faculty of Arts.

TEACHING

Teaching Experience

* denotes remote or partially remote due to COVID restrictions; *italics denotes upcoming courses*

LING 510/601	Current phonological theory (undergraduate) / Phonology I (graduate)
LING 499/599	Infant Speech Development: Birth to Two (undergraduate/graduate)
LING 319	Child Language Acquisition
LING 310	Phonology
LING 205	Phonetics
LING 101	Intro to Linguistics

COMMUNITY ENGAGEMENT

- I have vast experience recruiting families to campus universities. I have engaged with small communities and larger venues. Some of the trade shows I have attended: Mommylicious (Edmonton, AB), NEC Birmingham Baby Show (Birmingham, UK), Moms, Pops, and Tots (Calgary), and various malls and playdates. Through these venues, I have a platform to disseminate information about infants and language development.
- 2007 Volunteer Judge at Calgary Youth Science Fair (Calgary, AB)
- 2008 Volunteer Judge at Calgary Youth Science Fair (Calgary, AB)