

Abdellah Fourtassi

Latest update: December, 2024

Department of Computer Science
Aix Marseille Université
Campus universitaire de Luminy

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APPOINTMENT

Aix-Marseille University

Assistant Professor (tenured) of Computer Science (2019 - present)
Founder & Coordinator, Computational Communicative Development team (2020 - present)
Research fellow, Institute of Language, Communication & the Brain (2019 - present)
Researcher, Natural Language Processing research group TALEP (2019 - present)
Co-Director, Master's program of Cognitive Science (2020 - 2021)

Institute for Research in Digital Science & Technology (INRIA, Paris)

Visiting Researcher “Délégation Recherche INRIA” (2021 - 2022)

Stanford University

Postdoctoral Research Fellow, Department of Psychology (2016 - 2019)

EDUCATION

Ecole Normale Supérieure, Paris

Ph.D. in cognitive science (2015), *summa cum laude*
Master's degree in cognitive science (2012)

Ecole Polytechnique, Paris

Science & Engineering diploma (2011)

Lycée Moulay Youssef, Rabat

Undergraduate studies in Mathematics & Physics, CPGE/MP (2005 - 2008)

HONORS & AWARDS

Aix-Marseille University's Best PhD Award for a thesis on “Communicative Feedback in Language Acquisition” by Mitja Nikolaus (under my supervision), 2024

Ranked 2nd (/ 30), CMCL shared task (2021) for Dary, Nasr, & Fourtassi, “Non-Linear Combination of Low and High-level Features for Predicting Eye-Tracking Data”

Finalist, CoNLL Best Paper Award (2014) for Fourtassi & Dupoux, “Rudimentary Lexicon and Semantics Help Bootstrap Phoneme Acquisition”

ACL Best Student Paper Award (2013), for Fourtassi & Dupoux, “A Corpus-based Evaluation Method for Distributional Semantic Models.” \$1,000

GRANTS & FELLOWSHIPS

ANR JCJC (Agence Nationale de la Recherche, France), for “Mastering the Art of Conversation in Middle Childhood” (MACoMiC), 2022 - 2025, €287k (**PI**)

ESRC (UK Research and Innovation), for “Language Acquisition in the Early Years: Learning From and With Caregivers,” 2024 - 2027, £300k (**co-PI**, PI: Gabriella Vigliocco)

The Leverhulme Trust, for “What Makes Social Interaction a Powerful Learning Tool,” 2025 - 2028, £290k (**co-PI**, PI: Gabriella Vigliocco)

Marie Skłodowska-Curie European Fellowship, 2024-2026, €196k, Awardee: Monica Barbir (under my supervision). Project: “Grammar Learning Across Languages.”

ILCB Seed Grant to kick-start the Computational Communication & Development team (CoCoDev), 2020-2022, €20k (**PI**)

Marie Skłodowska-Curie European Fellowship, 2019-2021, \$217k, Awardee: Abdellah Fourtassi — *declined to take a faculty position at Aix-Marseille University.*

Stanford Data Science Seed Grant Award (**co-PI**, **PI**: Michael C. Frank), “Lexical networks in children’s early language,” 2018 -2019, \$50k

Fyssen Foundation's postdoctoral Study Grant, 2016 - 2018, €40k, Awardee: Abdellah Fourtassi

France-Stanford Center for Interdisciplinary Studies’ Collaborative Project Award (with Michael Frank & Emmanuel Dupoux), 2015 - 2016, \$15k

PEER-REVIEWED PUBLICATION (§ under my supervision)

Book:

Fourtassi, A. (under contract). AI and the Future of Language Development Research. *Cambridge University Press*

Edited Special Issue:

Agee, L., **Fourtassi, A.**, and Monfils, M. (to appear in 2025). The Neural and Behavioral Methods of Social Learning. *Frontiers in Behavioral Neuroscience*

Apidianaki, M., **Fourtassi, A.**, and Padó, S. (in press). Language Learning, Representation, and Processing in Humans and Machines. *Computational Linguistics*

Journal papers

1. **Fourtassi, A.** (under review). NLP for the Ecological Study of Language Development.
2. Nikolaus, M., & **Fourtassi, A.** (under review). Modeling Children's Grammar Learning via Caregiver Feedback in Natural Conversations.
3. §Mazzocconi, C., O'Brien, B., §Bodur, K., & **Fourtassi, A.** (under review). Do Children Laugh Like Their Parents? Conversational Laughter Mimicry Occurrence and Acoustic Alignment in Middle-Childhood.
4. **Fourtassi, A.**, & §Xu, Z. (under review). Initiating vs. Responding to Questions in Child-caregiver Spontaneous Conversations Across Preschool.
5. Bodur, K., **Fourtassi, A.**, Fredouille, C., Meunier, C. (under review). Speech Reduction in Middle Childhood: the Case of Child-Caregiver Interactions.
6. Agee, L., **Fourtassi, A.**, and Monfils, M. (under review). Social Context as a Source of Variability in the Psychological Sciences.
7. §Cabiddu, F., §Nikolaus, M., & **Fourtassi, A.** (2025). Comparing Children and Large Language Models in Word Sense Disambiguation: Insights and Challenges. *Language Development Research*, 5(1).

8. §Bodur, K., §Nikolaus, N., Prévot, L., & **Fourtassi, A.** (2023). Using video calls to study children's conversational development: The case of backchannel signaling. *Frontiers in Computer Science*, 5.
9. §Wilson, K., Frank, M., C., & **Fourtassi, A.** (2023). Conceptual Hierarchy in Child-Directed Speech: Implicit Cues are More Reliable. *Journal of Cognition & Development*, 24(4).
10. §Nikolaus, M. & **Fourtassi, A.** (2023). Communicative Feedback in Language Acquisition. *New Ideas in Psychology*, 68, 100985.
11. §Nikolaus, M., §Maes, E., Auguste, J., Prévot, L., & **Fourtassi, A.** (2022). Large-scale Study of Speech Acts' Development in Early Childhood. *Language Development Research*, 2(1).
12. §Jiang, H., Frank, M., C., Kulkarni, V., & **Fourtassi, A.** (2022). Exploring Patterns of Stability and Change in Caregivers' Word Usage Across Early Childhood. *Cognitive Science*, 46 (7).
13. **Fourtassi, A.**, §Regan, S., & Frank, M., C. (2021). Continuous Developmental Change Explains Discontinuities in Word Learning. *Developmental Science*, 24(2).
14. **Fourtassi, A.** & Frank, M. C. (2020) How Optimal is Word Identification Under Multimodal Uncertainty? *Cognition*, 199.
15. **Fourtassi, A.**, §Bian, Y. & Frank, M. C (2020). The Growth of Children's Semantic and Phonological Networks: Insight from 10 Languages. *Cognitive Science*, 44 (7).

Proceeding papers

16. §Liu, J., & **Fourtassi, A.** (under review). Benchmarking LLMs for Mimicking Child-Caregiver Language in Interaction.
17. §Agrawal, A., §Nikolaus, M., Favre, B., & **Fourtassi, A.** (2024). Automatic Coding of Contingency in Child-Caregiver Conversations. *Proceedings of the Joint International Conference on Computational Linguistics, Language Resources, and Evaluation (LREC-COLING)*.
18. §Nikolaus, M., §Agrawal, A., §Kaklamanis, P., Warstadt, A., & **Fourtassi, A.** (2024). Automatic Annotation of Grammaticality in Child-Caregiver Conversations. *Proceedings of the Joint International Conference on Computational Linguistics, Language Resources, and Evaluation (LREC-COLING)*.

19. §Goumri, D., §Agrawal, A., §Nikolaus, M., §VU, T., Bodur, K., §Semmar, E., §Armand, C., §Mazzocconi, C., Gupta, S., Prévot, L., Favre, B., Becerra, L., & **Fourtassi, A.** (2024). A Developmental Corpus of Child-Caregiver's Face-to-face vs. Video Call Conversations in Middle Childhood. *Proceedings of the Joint International Conference on Computational Linguistics, Language Resources, and Evaluation (LREC-COLING)*.
20. Schweitzer, M., Montagnini, A., **Fourtassi, A.**, & Schatz, T. (2024). Multimodal Integration in Audio-Visual Speech Recognition: How Far Are We From Human-Level Robustness? In *NeurIPS 2024 Workshop on Behavioral Machine Learning*.
21. §Goumri, D.-E., Becerra, L., & **Fourtassi, A.** (2024). Child-Caregiver Gaze Dynamics in Naturalistic Face-to-Face Conversations. In *Proceedings of the 46th Annual Meeting of the Cognitive Science Society*.
22. §Agrawal, A., Favre, B., & **Fourtassi, A.** (2024). Analyzing Communicative Intent Coordination in Child-Caregiver Interactions. In *Proceedings of the 46th Annual Meeting of the Cognitive Science Society*.
23. §Peirola, M., § Xu, Z., & **Fourtassi, A.** (2024). Development of Flexible Role-Taking in Conversations Across Preschool. In *Proceedings of the 46th Annual Meeting of the Cognitive Science Society*.
24. §Goumri, D., Janssoone, T., Becerra, L., & **Fourtassi, A.** (2023). Automatic Detection of Gaze and Smile in Children's Video Calls. *Proceedings of the International Conference on Multimodal Interaction (ICMI' 23 Companion)*
25. §Cabiddu, F., §Nikolaus, M., & **Fourtassi, A.** (2023). Modeling Children's Word Sense Disambiguation with Large Language Models: Insights and Challenges. In *Proceedings of the 45th Annual Meeting of the Cognitive Science Society*.
26. §Nikolaus, M., Prévot, L., & **Fourtassi, A.** (2023). Communicative Feedback Signals in Response to Children's Grammatical Errors. In *Proceedings of the 45th Annual Meeting of the Cognitive Science Society*.
27. §Mazzocconi, C., O'Brien, B., El Haddad, K., §Bodur, K., **Fourtassi, A.** (2023). Differences between Mimicking and Non-Mimicking Laughter in Child-Caregiver Conversation: A Distributional and Acoustic Analysis. In *Proceedings of the 45th Annual Meeting of the Cognitive Science Society*.
28. §Agrawal, A., §Liu, J., §Bodur, K., Favre, B., & **Fourtassi, A.** (2023). Development of Multimodal Turn Coordination in Conversations: Evidence for Adult-like Behavior in Middle

Childhood. In *Proceedings of the 45th Annual Meeting of the Cognitive Science Society*.

29. Tiran, T., Meewis, F., & **Fourtassi, A.**, & Dautriche I. (2023). Typology of Topological Relations Using Machine Translation. In *Proceedings of the 45th Annual Meeting of the Cognitive Science Society*.
 30. §Nikolaus, M., Salin, E., Ayache, S., **Fourtassi, A.**, & Favre, B. (2022). Do Vision-and-Language Transformers Learn Predicate-Noun Dependencies? In *Proceedings of the 2022 Conference on Empirical Methods in Natural Language Processing (EMNLP)*.
 31. §Liu, J., §Nikolaus, M., §Bodur, K., & **Fourtassi, A.** (2022). Predicting Backchannel Signaling in Multimodal Child-Caregiver Conversation. *Proceedings of the International Conference on Multimodal Interaction (ICMI'22 Companion)*.
 32. §Misiek, T. & **Fourtassi, A.** (2022). Caregivers Exaggerate Their Lexical Alignment to Young Children Across Several Cultures. In *Proceedings of the 26th Workshop on the Semantics and Pragmatics of Dialogue (SemDial)*.
 33. §Hallart*, C., §Peirollo*, M., §Xu, Z., & **Fourtassi, A.** (2022). Development of Dialog Contingency in Child-Caregiver Early Interaction (* shared first authorship). In *Proceedings of the 26th Workshop on the Semantics and Pragmatics of Dialogue (SemDial)*.
 34. §Bodur, K., §Nikolaus, M., Prévot, L., & **Fourtassi, A.** (2022). Backchannel Behavior in Child-Caregiver Video Calls. In *Proceedings of the 44th Annual Meeting of the Cognitive Science Society*.
 35. §Nikolaus, M., Prévot, L., & **Fourtassi, A.** (2022). Communicative Feedback as a Mechanism Supporting the Production of Intelligible Speech in Early Childhood. In *Proceedings of the 44th Annual Meeting of the Cognitive Science Society*.
 36. §Nikolaus, M., & **Fourtassi, A.** (2021). Modeling the Interaction between Perception-based Learning and Production-based Learning in Children's Early Acquisition of Semantic Knowledge. In *Proceedings of the 2021 Conference on Computational Natural Language Learning (CoNLL)*.
- §Dary, F., Nasr, A, & **Fourtassi, A.** (2021). TALEP at CMCL 2021 Shared Task: Non-Linear Combination of Low and High-level Features for Predicting Eye-Tracking Data. In *Proceedings of the 11th Workshop on Cognitive Modeling and Computational Linguistics (CMCL)*. **(Ranked 2nd out of 30 submissions in the shared task)**.

37. §Bodur, K., §Nikolaus, M., §Kassim, F., Prévot, L., & **Fourtassi, A.** (2021). ChiCo: A Multimodal Corpus for the Study of Child Conversation. In *Proceedings of the International Conference on Multimodal Interaction (ICMI'21 Companion)*.
38. §Nikolaus, M. & **Fourtassi, A.** (2021). Evaluating the Acquisition of Semantic Knowledge from Cross-situational Learning in Artificial Neural Networks. In *Proceedings of the 11th Workshop on Cognitive Modeling and Computational Linguistics (CMCL)*.
39. §Nikolaus*, M., §Maes*, E., Auguste, J., Prévot, L., & **Fourtassi, A.** (2021). Large-scale Study of Speech Acts' Development Using Automatic Labeling. In *Proceedings of the 43rd Annual Conference of the Cognitive Science Society* (* Shared first authorship).
40. §Nikolaus, M., §Maes E., & **Fourtassi, A.** (2021). Modeling Speech Act Development in Early Childhood: The Role of Frequency and Linguistic Cues. In *Proceedings of the 43rd Annual Conference of the Cognitive Science Society*.
41. §Dary, F., **Fourtassi, A.**, & Nasr, A., (2021). On the Role of Low-level Linguistic Tasks for Reading Time Prediction. In *Proceedings of the 43rd Annual Conference of the Cognitive Science Society*.
42. §Misiek, T., Favre, B., & **Fourtassi, A.** (2020). Development of Multi-level Linguistic Alignment in Child-Adult Conversations. In *Proceedings of the 10th Workshop on Cognitive Modeling and Computational Linguistics (CMCL)*.
43. **Fourtassi, A.** (2020). Word Co-occurrence in Child-directed Speech Predicts Children's Free Word Associations. In *Proceedings of the 10th Workshop on Cognitive Modeling and Computational Linguistics (CMCL)*.
44. **Fourtassi, A.**, §Wilson, K., & Frank, M., C. (2020). Discovering Conceptual Hierarchy Through Explicit and Implicit Cues in Child-Directed Speech. In *Proceedings of the 42nd Annual Conference of the Cognitive Science Society*.
45. **Fourtassi, A.***, §Scheinfeld, I.*, & Frank, M. C.(2019) The Development of Abstract Concepts in the Children's Early Lexical Networks. In *Proceedings of the 9th Workshop on Cognitive Modeling and Computational Linguistics (CMCL)* (* Shared first authorship).
46. **Fourtassi, A.**, §Regan, S. & Frank, M. C. (2019). The Role of Continuous Developmental Change in Explaining Discontinuities in Word Learning. In *Proceedings of the 41st Annual Conference of the Cognitive Science Society*.

47. **Fourtassi, A., & Dupoux, E.** (2019) Phoneme Learning is Influenced by the Taxonomic Similarity of the Semantic Referents. In *Proceedings of the 41st Annual Conference of the Cognitive Science Society*.
48. **Fourtassi, A., §Bian, Y., & Frank, M., C.** (2018). Word Learning as Network Growth: A Cross-Linguistic Analysis. In *Proceedings of the 40th Annual Conference of the Cognitive Science Society*.
49. **Fourtassi, A. & Frank, M., C.** (2017). Word Identification Under Multimodal Uncertainty. In *Proceedings of the 39th Annual Conference of the Cognitive Science Society*.
50. **Fourtassi, A. & Dupoux, E.** (2016). The role of word-word co-occurrence in word meaning learning. In *Proceedings of the 38th Annual Conference of the Cognitive Science Society*.
51. **Fourtassi, A. & Dupoux, E.** (2014). Rudimentary Lexicon and Semantics Help Bootstrap Phoneme Acquisition. In *Proceedings of the 18th Conference on Computational Natural Language Learning (CoNLL)*. **(Best paper award finalist)**
52. **Fourtassi, A., Schatz, T., Varadarajan, B. & Dupoux, E.** (2014). Exploring the Relative Role of Bottom-Up and Top-Down Information in Phoneme Learning. In *Proceedings of the 52nd Annual Meeting of the Association for Computational Linguistics (ACL)*.
53. **Fourtassi, A., Dunbar, E., & Dupoux, E.** (2014). Self Consistency as an Inductive Bias in Early Language Acquisition. In *Proceedings of the 36th Annual Conference of the Cognitive Science Society*.
54. **Fourtassi, A., Borschinger, B., Johnson, M. & Dupoux, E.** (2013). Why is English so easy to segment? In *Proceedings of the 4th Workshop on Cognitive Modeling and Computational Linguistics (CMCL)*.
55. **Fourtassi, A. & Dupoux, E.** (2013). A Corpus-based Evaluation Method for Distributional Semantic Models. In the *51st annual meeting of the Association for Computational Linguistics, Proceedings of the student research workshop*. **(IBM Best Student paper)**

INVITED TALKS (selection)

Mile-Quebec AI Institute, October 2024

Cambridge University, Center for Family Research, April 2024

International Social Contingency Consortium, December 2023

University College London, Division of Psychology and Language Sciences, May 2023

International Center for Language and Communicative Development (LuCiD), March 2023

University of Goettingen, Psychology of Language Department, February 2023

Dagstuhl Perspective Workshop, October 2022
 The Chinese University of Hong Kong, Department of Linguistics Seminar, November 2022
 University of Radboud, Multimodal Language and Cognition Seminar, June 2022
 University of Aarhus, Interacting Minds Center Seminar, June 2022
 University of Amsterdam, Computational Linguistics Seminar (CSL), May 2022
 Pr[AI]rie institute Colloquium, February 2022
 OECD International Meeting on AI & the Productivity of Science, November 2021
 Stanford University, Center for the Study of Language & Information (CSLI), June 2018

MENTORSHIP

Ph.D. researchers

Jing Liu – current, co-advised with E. Dupoux (AI 4 the Sciences fellowship)
 Abhishek Agrawal – current, co-advised with B. Favre (MACoMiC grant)
 Dhia Elhak Goumri – current, co-advised with L. Becerra (MACoMiC grant)
 Mitja Nikolaus – defended (2023), co-advised with L. Prévot – Postdoc at CNRS
 Franck Dary – defended (2022), co-advised with A. Nasr – Data Scientist at DialOnce

Visiting Ph.D. researchers:

Judith Kalinowski (University of Göttingen),
 Francesco Cabiddu (Cardiff University)

Postdoc researcher

Monica Barbir – current (Marie Skłodowska-Curie European Fellowship)
 Chiara Mazzocchi – former, co-advised with B. Priego-Valverde (ILCB Fellowship)

Master's interns

Nina Gregorio, Master of Cognitive Science (Cogmaster), ENS
 Jing Liu, Master in Linguistics & Communication, Radboud University
 Maryam Taiaa, Master of Data Science, Aix-Marseille University
 Laudine LÊ, International Master of Biometrics, Paris-Est University
 Inès Ben Haj Kacem, former, Master of Cognitive Science (Cogmaster), ENS
 Sarah Said, Master of Data Science, Paris-Dauphine University
 Kübra Bodur, Master of Cognitive Science, Aix-Marseille
 Gabriel Meunier, Master of Artificial Intelligence, Aix-Marseille
 Maureen Astier, Master of Cognitive Science, Aix-Marseille
 Charlie Hallart, Master of Cognitive Science, Aix-Marseille
 Morgane Peirola, former, Master of Cognitive Science, Aix-Marseille

Eliot Maes, Master of Cognitive Science, Aix-Marseille
 Thomas Misiak, Master of Cognitive Science, Aix-Marseille
 Pelayo Mencos, Master of Cognitive Science, Aix-Marseille
 Hang Jiang, Master's of Symbolic Systems, Stanford University

Other interns (Recent)

Martin Cuingnet (Ecole Normale Supérieure Paris-Saclay), Lucien Loriferne (Ecole Normale Supérieure Lyon), Petros Kaklamanis (University of Pennsylvania), Martin Padovani (Ecole Polytech' Marseille), Yassine Laribi (Ecole Centrale Marseille), Zihan Xu (Jiao Tong University), Kyra Wilson (Stanford University), Yifan Ma (Stanford University), Sophie Regan (Stanford University), Isaac Scheinfeld (Stanford University), Yuan Bian (Stanford University)

Ph.D. committee

Khazar Khorrami (Tampere University), May Abdou (Ecole Normale Supérieure), Kaijia Tey (Ecole Normale Supérieure), Rozic Gal (University College London), Rudradeep Guha (Université de Bourgogne), Daria Goryachun (Aix-Marseille University), Maïwenn Fleig (Aix-Marseille University), Ambre Balleroy (Aix-Marseille University), Leonardo Pinto Arata (Aix-Marseille University), Auriane Boudin (Aix-Marseille), Alafate Abulimiti (INRIA Paris), Léo Jacqmin (Aix-Marseille), Salma Ferjani (Aix-Marseille).

TEACHING

Aix-Marseille University (2020 – present)

Computer Science Department

- Introduction to Machine Learning (undergraduate, 3d year: L3), 2022- 2023
- Probability Theory for Computer Science (masters), 2022
- Introduction to Natural Language Processing (masters), 2020 – 2023
- Introduction to Theories in Computer Science (undergraduate, 1st year: L1), 2020
- Computer programming: Python (undergraduate, 1st year: L1), 2020 – present

Cognitive Science Department

- Machine Learning as a Model in Cognitive Science (masters), 2024 – present
- Introduction to Cognitive Science (masters), 2020 – 2022
- Computer Programming for Cognitive Science (masters), 2020 – present

Summer Schools

- ILCB summer school, “Child language acquisition: State of the art ” (2021 – present)
- ETAL, National Summer School on NLP, “When NLP meets Cognitive Science” (2023)

SERVICE

Editorial & Reviewing service

Journals and Conferences, Editor:

- Senior Area Chair, International Conf. on Computational Linguistics (COLING, 2025)
- Area Chair, Annual Meeting of the Assoc. of Computational Linguistics (ACL, 2023)
- Associate Editor for *Frontiers in Cognitive Neuroscience* (2023 - present)
- Co-editor, special issue on “Language Learning, Representation, and Processing in Humans and Machines.” *Computational Linguistics* (in press)
- Co-editor, special issue on the “Neural and Behavioral Mechanisms of Social Learning.” *Frontiers in Cognitive Neuroscience* (to appear in 2025)

Funding agencies, Reviewer:

- Agence Nationale de la Recherche (ANR, France)
- National Science Foundation (NSF, USA),
- British Academy Wolfson Research Professorship (UK)
- IVADO AI consortium (Canada)
- The Royal Society, APEX Award (UK)
- National Science Center (NSC, Poland),

Books, Reviewer:

- Cambridge University Press

Journals, Reviewer:

Psychological Review, Cognition, Cognitive Science, Cognitive Psychology, Journal of Experimental Psychology: General, Developmental Psychology, Developmental Cognitive Neuroscience, Child Development, Speech Communication, Language Learning, Infant Behavior & Development, Language Learning & Development, Frontiers Human Neuroscience, Behavior Research Methods, Language & Cognition.

Conferences: Reviewer for (selection):

ACL Rolling Review (ARR), Cognitive Science Society Conference (CogSci), International Conference on Multimodal Interaction (ICMI), Cognitive Development Society Conference (CDS), Conference on Computational Natural Language Learning (CoNLL), International Conference on Affective Computing and Intelligent Interaction (ACII), Workshop on Cogn. Modeling and Computational Linguistics (CMCL), Workshop on Knowledge Extraction and Integration for Deep Learning (DeeLIO), etc.

Governance and University Service (selection)

- Founder, Director, CoCoDev team (2020 - present)
- Deputy Director, Institute of Language Communication & Brain (ILCB) (2020 - present)
- Co-Director, Aix-Marseille's Research Master in Cognitive Science (MaSCo) (2020 - 2021)
- Organizer, CoCoDev seminars (2020 - present)
- Organizer, Workshop on Language Learning in Interaction, 2024
- Co-Organizer, French National Summer School on NLP (ETAL 2023)
- Co-Organizer, GdR TAL French National meeting on “Bridging NLP and Cog. Sci.” (2020)

Large public

Fourtassi A., Nguyen N., Bertrand, R. (2022). “Les bébés apprennent l’art de la conversation avant même de savoir parler” in *The Conversation* ([link](#))