

# Isabelle Dautriche

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## CURRENT POSITION

From 2016 **Post-Doc**, *University of Edinburgh*, Edinburgh, Scotland (UK).

## EDUCATION

2012 – 2015 **PhD Cognitive Sciences**, *University Paris V*, France.

Thesis title: "Weaving an ambiguous lexicon"

Advisor: Anne Christophe

2011 – 2012 **M.Sc. Cognitive Sciences**, *ENS - Ecole Normale Supérieure*, Paris, France.

Thesis title: "Toddlers Default to Canonical Surface-to-Meaning Mapping When Learning Verbs"

Advisor: Anne Christophe

with Highest Honors (ranked 1<sup>rst</sup>/37)

2004 – 2009 **Engineering degree in Mathematics and Modeling**, *INSA*, Toulouse, France.

Thesis title: "Modeling phonemic categorization using supervised HMM"

Advisor: Emmanuel Dupoux

## PEER-REVIEWED PUBLICATIONS

**Dautriche I.**, Chemla E. & Christophe A. (in press), Word learning: homophony and the distribution of learning exemplars. *Language Learning and Development*

**Dautriche I.**, Swingle D. & Christophe A. (2015), Learning novel phonological neighbors: syntactic category matters. *Cognition*, 143, 77-86.

de Carvalho A. **Dautriche I.** & Christophe A. (in press), Preschoolers use phrasal prosody online to constrain syntactic analysis. *Developmental Science*.

**Dautriche I.** & Chemla E. (2014), Cross-situational word learning in the right situations. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 40(3), 892 - 903.

**Dautriche I.\***, Cristia A.\*, Brusini P., Yuan S., Fisher C. & Christophe A., (2014), Toddlers default to canonical surface-to-meaning mapping when learning verbs. *Child Development*, 85: 1168-1180.

Gutman A., **Dautriche I.**, Crabbé B. & Christophe A. (2014), Bootstrapping the syntactic bootstrapper: Probabilistic labelling of prosodic phrases. *Language Acquisition*.

Synnaeve G., **Dautriche I.**, Boerschinger B., Johnson M. & Dupoux E. (2014), Unsupervised Word Segmentation in Context. *COLING 2014*

**Dautriche I.**, Saint-Dizier P. (2009), A Conceptual and Operational Model for Procedural Texts and its Use in Textual Integration, *IWCS8 conference, Tilburg, Pays Bas*

## WORK SUBMITTED AND IN PROGRESS

**Dautriche I.** & Chemla E. (in revision), What homophones say about words.

**Dautriche I.**, Mahowald K., Gibson E. & Piantadosi S.T. (in revision), Wordform similarity increases with semantic similarity: an analysis of 101 languages.

Mahowald K., **Dautriche I.**, Gibson E., & Piantadosi S.T. (in revision), Word forms are structured for efficient use.

Mahowald K.\*, **Dautriche I.\***, Gibson E., Christophe A. & Piantadosi S.T. (in revision), Lexical clustering in efficient language design.

de Carvalho A.\*, **Dautriche I.\*** & Christophe A. (in prep), Toddlers flexibly interpret novel verbs in different syntactic contexts.

**Dautriche I.**, Fibla L. & Christophe A. (in prep), The right conditions to learn homophones.

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## BOOK CHAPTERS

Brusini, P., de Carvalho, A., **Dautriche I.**, Gutman, A., Cauvet, E., Millotte, S. & Christophe, A. (in press). Bootstrapping lexical and syntactic acquisition. In M. Kail, M. Hickman & E. Veneziano, Sources of variations in first language acquisition: Languages, contexts, and learners, John Benjamins.

Van Heugten, M., **Dautriche I.**, & Christophe, A. (2014). Phonological and prosodic bootstrapping. In: P. Brooks, V. Kempe, & J. G. Golson (Eds), Encyclopedia of Language Development. Thousand Oaks, CA: SAGE Publications Inc, 447-451.

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## CONFERENCE TALKS

**Dautriche I.**, Fibla L. & Christophe A. (2015), Learning homophones: syntactic and semantic contexts matter, *40th Boston University Conference on Language Development, USA*

**Dautriche I.**, Swingley D. & Christophe A. (2014), Learning phonological neighbors: syntactic category matters, *39th Boston University Conference on Language Development, USA*

**Dautriche I.**, Mahowald K., Gibson E., Christophe A. & Piantadosi S. T. (2014), Lexical clustering in efficient language design, *AMLaP, Edinburgh, Scotland*

de Carvalho, A., **Dautriche I.** & Christophe A. (2013), Three-year-olds use prosody to constrain syntactic analysis, *38th Boston University Conference on Language Development, USA*.

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## CONFERENCE POSTERS

de Carvalho, A.\*, **Dautriche I.\*** & Christophe A., Toddlers flexibly interpret novel verbs in different syntactic contexts (2015), *Society for Research on Children Development, USA*.

Synnaeve G., **Dautriche I.**, Boerschinger B., Christophe A., Johnson M. & Dupoux E. (2014), Context helps in learning to segment words: evidence from a modeling study. *39th Boston University Conference on Language Development, Boston, USA*

Gutman A., **Dautriche I.**, Crabbe B., & Christophe A., (2013), Prosody as a means of acquiring syntactic categories and building a syntactic skeleton, *Budapest Conference on Cognitive Development, Budapest, Hungria*

**Dautriche I.**, Cristia A., Brusini P., Yuan S., Fisher C. & Christophe A., (2012), The role of prosody in toddlers' interpretation of verbs' argument structure, *37th Boston University Conference on Language Development, Boston, USA*

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## FELLOWSHIPS & AWARDS

2016 – 2018 **Future Research Leaders award from the ESRC** – £201,756

2015 **Robert J. Glushko Dissertation Prize** – \$10,000

2016 - 2018 **FYSSSEN Post-doctoral grant** – 48,000€

2013 - 2015 **PhD Fellowship from the Direction Generale de l'Armement** – 62,600€

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## TEACHING

2013 - 2015 **Introductory course in mathematics and statistics for cognitive scientists** (M.Sc Cognitive Sciences, Ecole Normale Supérieure), Co-created this course in 2013 and co-wrote the course material (24H of courses and 40H of tutorials per year)

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## SUPERVIZED STUDENTS

2015 L. Fibla (UG)

2014 A. de Carvalho (M.Sc), S. Gharbi (M.Sc), C. Ledoux (UG), H. Dumont (UG)

2013 JE. Bergemer (M.Sc), A. de Carvalho (M.Sc)

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## REVIEWING ACTIVITY

Cognition, Child Development, Journal of memory and language, Language Learning and Development, Journal of Speech, Language, and Hearing Research

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## OTHER EXPERIENCES

- 2013 – now **Educational videos maker for the French Khan Academy**,  
*www.khan-academy.fr*.  
Hundreds of instructional videos in mathematics ranging from middle school to university levels.
- 2009 – 2011 **Reservoir Engineer**, *TOTAL oil & gas, Exploration & Production*, Indonesia.