# Dr. Hannah Little

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A digital enthusiast, linguist and digital rights campaigner with extensive professional experience in research, teaching and public engagement. I specialise in digital communication, public speaking, linguistic and cultural evolution, experimental methods and data analysis.

- 2018-2019 Postgraduate Certificate in Academic Practice, University of the West of England.
- 2012–2017 **PhD**, Artificial Intelligence Laboratory, Vrije Universiteit Brussel.

  Thesis: It's not all in your Mind: Modality Effects on the Emergence of Speech Structure Supervisor: Prof. Dr. Bart de Boer
- 2010–2011 MSc Evolution of Language and Cognition, University of Edinburgh.

  Thesis: "Foreigner Directed Speech: Its role in Cultural Transmission of Language & the resulting effects on Language Typology". Supervisor: Dr. Kenny Smith
- 2007–2010 **BA English Language and Linguistics**, *University of York*, (First Class Honors). Thesis: "Morphosyntactic Unification of Case Markers and Postpositions in Hungarian" Supervisor: Dr. George Tsoulas

#### Work Experience

- Dec 18 **Senior Lecturer in Science Communication**, *University of the West of England, Bristol.*. I lecture on science communication, focusing on cognitive aspects, digital communication and public speaking. I lead modules on research methods and science in public spaces.
- Oct 17-Dec 18 Lecturer in Science Communication, University of the West of England, Bristol..
  - Oct 17 **Data Annotator**, *The University of Cambridge, Cambridge, UK*.

    Helped annotated a learner corpus for the ALTA Institute (short term casual contract)
- Sep 16–Sep 17 **PostDoc**, *Max Planck Institute for Psycholinguistics. Nijmegen, NL*. I worked on projects around the theme of language evolution.
  - Sep 12 **Festival Communications Assistant**, *British Science Festival*, *Aberdeen, UK*.

    I liaised with journalists and speakers, wrote and edited press releases, monitored press generated by the festival. I also helped promote and report on events on social media.
- Jan 12–Oct 12 **STEM Outreach Coordinator**, *STEM Outreach, Newcastle College, Newcastle, UK*.

  I coordinated the STEM Ambassadors Programme and the Nuffield Research Placements in the region. I also maintained the organisation's blog and social media.

#### **Academic Honours/Board Positions**

- 2019- Fellow of the Higher Education Academy (FHEA)
- 2018- Supporter Council. Open Rights Group.
- 2018- Athena Swan Self Assessment Team. Department of Applied Sciences. UWE Bristol.
- 2018-2019 Associate Fellow of the Higher Education Academy (AFHEA)
  - 2017- Scientific Committee. Evolution of Language (EvoLang) International Conferences
  - 2016- Board Member (PR Officer). International Association of Cognitive Semiotics (IACS)

Web Literacy html5, javascript, Wordpress, Social Media

Programming R, python (including PsychoPy), jsPsych, E-Prime, praat, latex

#### **Teaching** (Teaching evaluations available on request)

- 2018- Lecturer on Science, the Public and Media. MSc module.
- 2017- Lecturer on Writing Science module. MSc module.
- 2018- Lecturer on Science in Public Spaces module. MSc module.
- 2018- Lecturer on Science on Air and on Screen module. MSc module.
- 2018- Lecturer on Science and Society. MSc module.
- 2018- Lecturer on Wildlife, Film and Media. BSc module.
- 2018- Lecturer on Science Communication module. BSc module.
- 2017- Lecturer on People and Science module. Foundation level course.
- 2017-2018 Course Tutor. Biomedical Skills. BSc Module.
  - 2017 Convener/Lecturer. Minds, Mechanisms and Interaction in the Evolution of Language Summer School. I covered sections on open science, preregistration and data cleaning. MPI for Psycholinguistics, Nijmegen, Netherlands
- 2012-2015 Teaching assistant, Methods of Scientific Research (MSc Course), VUB, Brussels, Belgium

#### Module Leadership

- 2018- Module Leader. Research Skills. Online Module of PGDip in Applied Science Communication.
- 2018- Module Leader. People and Science. Foundation level course.
- 2018- Module Leader. Science in Public Spaces module. MSc module.
- 2018- Acting Module Leader. Science on Air and on Screen module. MSc module.

#### Supervision

- 2018 6 Masters Dissertation Projects
- 2018 6 Bachelors Dissertation Projects

#### **Grants and Bursaries**

- 2019 SCU Seed Research Funding. UWE.
- 2017 Cultural Evolution Society Conference Travel Grant.
- 2017 Data on the Mind Workshop. Berkeley, University of California. Funded Participant.
- 2016–2017 Max Planck Institute Visitorship Grant
- 2012-2016 European Research Council, PhD studentship as part of the ABACUS project
  - 2015 VUB Doctoral School, NSE Travel Grant €750
  - 2012 British Interactive Group, Bursary to attend the BIG Annual Training Conference
  - 2012 Edinburgh Beltane, Bursary to attend the Science Communication Conference

#### **Conference Organisation**

- 2019 International Symposium on Iconicity in Language and Literature 2019, Lund, Sweden (Scientific Committee)
- 2018 Modality Matters Workshop (Evolang 2018), with Ashley Micklos

- 2017 Minds, Mechanisms and Interaction in the Evolution of Language Workshop, Max Planck Institute for Psycholinguistics (2017)
- 2017 Advancing Behavioural and Cognitive Understanding of Speech workshop, Max Planck Institute for Psycholinguistics (2017)
- 2016 The Evolution of Speech workshop, EvoLangXI (2016)
- 2015 The Evolution of phonetic capabilities: causes, constraints and consequences, Satellite Meeting at the International Congress of Phonetic Sciences (2105)

#### Reviewing and Editing

**Journal** 

**Reviewing** The Journal of Language Evolution, Language and Cognition, Social Media and Society, PLOS ONE, Interaction Studies, Cognitive Science, Literary and Linguistics Computing

Editing Guest Editor, Journal of Language Evolution, Special Issue: Evolution of Sound Systems

**Conferences** CogSci2019, ILL-12, IACS3, CogSci2018, EvoLangXII, CogSci2017, CogSci2016 (Program committee), EvoLangXI, CogSci2015, EvoLangX

**Books** Routledge, SpringerBriefs in Linguistics

## **Publications**

#### **Journal Papers**

- 2018 Perlman, Marcus, Hannah Little, Bill Thompson and Robin L. Thompson. "Iconicity in Signed and Spoken Vocabulary: A Comparison between American Sign Language, British Sign Language, English, and Spanish." Frontiers in Psychology 9 (1433). Research topic: Visual Language. doi: 10.3389/fpsyg.2018.01433
- 2017 **Little, Hannah**, Heikki Rasilo, Sabine van der Ham and Kerem Eryilmaz. Empirical approaches for investigating the origins of structure in speech. *Interaction Studies 18(3)*. 332 354. doi: 10.1075/is.18.3.03lit
- 2017 **Little, Hannah**, Kerem Eryilmaz and Bart de Boer. Conventionalisation and Discrimination as Competing Pressures on Continuous Speech-like Signals. *Interaction Studies 18(3)*. 355 378. doi: 10.1075/is.18.3.04lit
- 2017 **Little, Hannah**, Kerem Eryilmaz and Bart de Boer. Signal dimensionality and the emergence of structure. *Cognition 168* 1-15. doi: 10.1016/j.cognition.2017.06.011
- 2017 **Little, Hannah**. Introduction to the Special Issue on the Emergence of Sound Systems. *The Journal of Language Evolution 2(1)* 1-3. doi: 10.1093/jole/lzx014
- 2016 Eryilmaz, Kerem and **Hannah Little**. Using Leap Motion to investigate the emergence of structure in speech and language. *Behavior Research Methods* 49(5) 1748–1768. doi:10.3758/s13428-016-0818-x

#### Journal Papers submitted or near submission

- submitted Motamedi, Yasamin, **Hannah Little**, Alan Nielsen and Justin Sulik. "The Iconicity Toolbox: Empirical Approaches to Measuring Iconicity." Target Journal: Language and Cognition.
- in revision Little, Hannah, Jack Wilson, Kerem Eryilmaz and Bart de Boer. "Structure as a product of restricted signal-meaning mapping." Target Journal: Cognitive Semiotics
  - invited Wilson, Jack, J. and Hannah Little "A Neo-Peircean Framework for Experimental Semiotics." Target Journal: Zeitschrift für Semiotik, special issue on Cognitive Semiotics

in prep Wilkinson, Clare and **Hannah Little** "The Great Escape: What potential do 'Escape Rooms' offer as a science communication technique?" Target Journal: Public Understanding of Science

#### **Edited Volumes**

- 2018 Cuskley, Christine, Molly Flaherty, **Hannah Little**, Luke McCrohon, Andrea Ravignani & Tessa Verhoef (Eds.). The Evolution of Language: Proceedings of the 12th International Conference.
- 2017 **Little, Hannah** (Ed.). Special Issue on the Emergence of Sound Systems [Special Issue]. *The Journal of Language Evolution*, 2(1).
- 2015 **Little, Hannah**. Evolution of Phonetic Capabilities: Causes, Constraints and Consequences. *ICPhS Satellite Event.* Glasgow, UK.

#### **Book Reviews**

- 2016 **Little, Hannah**. Review of Ljiljana Progovac: Evolutionary Syntax. Oxford: Oxford University Press, 2015. Linguist List 27(3298)
- 2014 **Little, Hannah**. Review of Denis Bouchard: The Nature and Origin of Language. Oxford: Oxford University Press, 2013. Linguist List 25(4460)

#### **Conference Proceedings**

- 2018 **Little, Hannah** "Modality effects on the emergence of structure in communication" *Third Conference of the International Association for Cognitive Semiotics.* (pp. 79) Toronto, Canada
- 2018 Perlman, Marcus, **Hannah Little** and Robin L. Thompson. "Comparing Iconicity in Signed and Spoken Vocabulary" *Third Conference of the International Association for Cognitive Semiotics.* (pp. 93) Toronto, Canada
- 2018 Perlman, Marcus, **Hannah Little** and Robin L. Thompson. "Modality differences in Iconicity: An empirical comparison of signed and spoken vocabularies" *Modality Matters. Workshop at the 12th international conference for the Evolution of Language (EvoLangXII)*. (pp. 6–11) Toruń, Poland.
- 2018 **Little, Hannah** and Ashley Micklos. "Modality Matters: an Introduction" *Modality Matters. Workshop at the 12th international conference for the Evolution of Language (EvoLangXII)*. (pp. 1–5) Toruń, Poland.
- 2018 Roberts, Sean, Ashley Micklos, Justin Sulik and **Hannah Little**. "The role of interaction in language evolution." *The Evolution of Language: Proceedings of the 12th international conference (EvoLangXII)*. Toruń, Poland.
- 2018 **Little, Hannah** and Justin Sulik. "What do iconicity judgements really mean?" *The Evolution of Language: Proceedings of the 12th international conference (EvoLangXII)*. Toruń, Poland.
- 2017 Sulik, Justin, Ashley Micklos and **Hannah Little**. "Interaction drives the evolution of informative signals theme session" *Proceedings of the Inaugural Cultural Evolution Society Conference*. Jena, Germany.
- 2017 **Little, Hannah**. "Interaction, Perspective Taking and the Emergence of Transparency" *Proceedings of the Inaugural Cultural Evolution Society Conference*. Jena, Germany.

- 2017 Little, Hannah, Marcus Perlman and Kerem Eryilmaz. "Repeated Interactions Can Lead to More Iconic Signals" In G. Gunzelmann, A. Howes, T. Tenbrink, & E. Davelaar (Eds.) Proceedings of the 39th Annual Conference of the Cognitive Science Society. (pp. 760–766) Austin, TX: Cognitive Science Society
- 2017 **Little, Hannah** and Marcus Perlman. "The transition from iconic signals to arbitrary signs depends on modality" In: *Proceedings of the 11th International Symposium on Iconicity in Language and Literature.* pp.37-39. Brighton, UK.
- 2017 **Little, Hannah.** "Causes for the inverse relationship between iconicity and phonological structure" In: *Proceedings of the 11th International Symposium on Iconicity in Language and Literature.* pp. 117-119. Brighton, UK.
- 2017 Little, Hannah, Kerem Eryilmaz and Bart de Boer. "Conventionalisation and Discrimination as Competing Pressures on Continuous Speech-like Signals." *Proceedings for CogLing7*. (pp. 38–39) Nijmegen, NL.
- 2016 **Little, Hannah** and Bart de Boer. "Did the pressure for discrimination trigger the emergence of combinatorial structure?" In: *Proceedings of the Second Conference of the International Association for Cognitive Semiotics.* (pp. 109–110) Lublin, Poland.
- 2016 Wilson, Jack J. and Hannah Little. "A Neo-Peircean Framework for Experimental Semiotics." In: Proceedings of the Second Conference of the International Association for Cognitive Semiotics. (pp. 171–173) Lublin, Poland.
- 2016 **Little, Hannah**. "Nahran Bhannamz: Language Evolution in an Online Zombie Apocalypse Game." In: *Createvolang: creativity and innovation in language evolution.* New Orleans, USA.
- 2016 Little, Hannah, Kerem Eryilmaz and Bart de Boer. "Differing signal-meaning dimensionalities facilitates the emergence of structure." In S.G. Roberts, C. Cuskley, L. McCrohon, L. Barceló-Coblijn, O. Feher & T. Verhoef (eds.) The Evolution of Language: Proceedings of the 11th international conference (EvoLangXI). (pp. 182–190) New Orleans, USA.
- 2016 Little, Hannah, Kerem Eryilmaz and Bart de Boer. "Emergence of Signal Structure: Effects of Duration Constraints." In S.G. Roberts, C. Cuskley, L. McCrohon, L. Barceló–Coblijn, O. Feher & T. Verhoef (eds.) The Evolution of Language: Proceedings of the 11th international conference (EvoLangXI). (pp. 468–470) New Orleans, USA.
- 2016 Eryilmaz, Kerem, **Hannah Little** and Bart de Boer. "Using HMMs to Attribute Structure to Artificial Languages." In S.G. Roberts, C. Cuskley, L. McCrohon, L. Barceló–Coblijn, O. Feher & T. Verhoef (eds.) *The Evolution of Language: Proceedings of the 11th international conference (EvoLangXI)*. (pp. 407–410) New Orleans, USA.
- 2015 **Little, Hannah** "Introduction to the evolution of phonetic capabilities satellite meeting." In: Hannah Little, ed., *The proceedings of Evolution of Phonetic Capabilities: Causes, Constraints and Consequences.* pp 1. Glasgow, UK.
- 2015 Little, Hannah, Kerem Eryilmaz and Bart de Boer. "A new artificial signal-space proxy for investigating the emergence of structure and categories in speech." In *The Scottish Consortium for ICPhS 2015 (Ed.), Proceedings of the 18th International Congress of Phonetic Sciences*. Glasgow, UK: the University of Glasgow. ISBN 978-0-85261-941-4. Paper 31.
- 2015 Little, Hannah, Kerem Eryilmaz and Bart de Boer. "Linguistic Modality Affects the Creation of Structure and Iconicity in Signals." In D. C. Noelle, R. Dale, A. S. Warlaumont, J. Yoshimi, T. Matlock, C. D. Jennings, & P. P. Maglio (Eds.), Proceedings of the 37th Annual Conference of the Cognitive Science Society (pp. 1392–1398). Austin, TX: Cognitive Science Society.
- 2014 Little, Hannah and Catriona Silvey "Interpreting emerging structures: the interdependence of combinatoriality and compositionality". In First Conference of the International Association for Cognitive Semiotics (IACS 2014). pp 113–114. Lund, Sweden.

- 2014 **Little, Hannah** and Bart de Boer. "The effect of size of articulation space on the emergence of combinatorial structure". In: Erica A. Cartmill, Seán Roberts, Heidi Lyn and Hannah Cornish, ed., The Evolution of Language: *Proceedings of the 10th international conference (EvoLangX)*. pp. 479-481. Vienna, Austria.
- 2014 **Little, Hannah** and Kerem Eryilmaz "The effect of physical articulation constraints on the emergence of combinatorial structure". In: Bart de Boer and Tessa Verhoef, ed., *The EvoLangX Workshop on Evolution of Signals, Speech and Signs.* pp.11–17. Vienna, Austria.
- 2014 Littauer, Richard, Seán G. Roberts, James Winters, Rachael Bailes, Michael Pleyer and Hannah Little. "From the Savannah to the Cloud: Blogging Evolutionary Linguistics research". In: Luke McCrohon, Bill Thompson, Tessa Verhoef and Hajime Yamauchi, ed., The Past, Present and Future of Language Evolution Research. Student Volume of the 9th International Conference on the Evolution of Language. pp 121–133. Tokyo, Japan.
- 2013 Wilson, Jack, J. and **Hannah Little**. "Emerging languages in Esoteric and Exoteric Niches: evidence from Rural Sign Languages". In: *Ways to Protolanguage 3 book of abstracts.* pp. 54–55. Wroclaw, Poland.
- 2012 Littauer, Richard, James Winters, Seán G. Roberts, **Hannah Little**, Michael Pleyer and Bill Benzon. "Academic Research in the Blogosphere: Adapting to new opportunities and risks on the internet". In: Jan Christoph Meister, ed., *Digital Humanities 2012 Conference Abstracts*, pp. 268–269. Hamburg: Hamburg University Press.
- 2012 **Little, Hannah** "The Role of Foreigner-Directed Speech in Language Evolution". *European Human Behaviour and Evolution Association Annual Meeting 2012 Poster Abstracts.* pp. 7. Durham, UK.

#### **Conference Presentations without Proceedings**

- 2016 **Little, Hannah**, Kerem Eryilmaz and Bart de Boer. "The effects of Communication on Iconicity in Continuous Speech–like Signals." Psycholinguistics in Flanders. Antwerp, Belgium.
- van der Ham, Sabine, **Hannah Little**, Kerem Eryilmaz and Bart de Boer. "Experimental Evidence on the Emergence of Phonological Structure." In: The proceedings of The 13th International Cognitive Linguistics Conference (ICLC-13). Newcastle, UK.
- 2014 Little, Hannah. "Experiments in the Emergence of Combinatorial Structure: Considering the Limitations of Articulation Space Proxies". Poster presentation. Nijmegen Lectures. 28 January 2014. Nijmegen, Netherlands.

#### **Invited Talks**

- 2017 **Little, Hannah**. "Biases born from modality affect the emergence of linguistic structure" *Minds, Mechanisms and Interation in the Evolution of Language.* MPI, Nijmegen, the Netherlands.
- 2017 Perlman, Marcus, **Hannah Little** and Robin L. Thompson. "Modality driven encoding of iconicity in signed and spoken vocabulary: A Comparison between British Sign Language and English" *Types of iconicity in language use, development and processing.* MPI, Nijmegen, the Netherlands.
- 2016 Little, Hannah. "It's not all in your Mind": Modality Effects on the Emergence of Combinatorial Structure" Invited Colloquium Diversity in Language, Culture and Cognition.
   8 December 2016. Max Plank Institute for Psycholinguistics. Nijmegen, The Netherlands
- 2015 **Little, Hannah**. "Extherements: An experimental investigation into signal space topology and the emergence of structure." Invited talk. The Language Evolution and Computation Unit. 17 March 2015. The University of Edinburgh, UK.

## **Public Engagement**

#### Public Engagement Roles (See also Work Experience)

2018- Public Engagement Coordinator - Department of Applied Sciences, UWE Bristol

#### **Public Engagement Research**

- ongoing The Great Escape. Investigating the impact of 'escape rooms' as science communication.
- ongoing SciRoc. EU Horizon project. Investigating public perceptions of robotics and A.I. at Smart City Robot Competitions.

#### **Public Engagement Evaluation**

2018 Royal Institution Christmas Lectures Evaluation.

#### Public Engagement Articles (Full list including University Media and Blogging available on request)

- 2019 **Little, Hannah**. "Text Machina" Feature Article in Babel: The Language Magazine 2019, Issue 26. Page 38-40.
- 2018 **Little, Hannah**. "Linguistic X-Men" Feature Article in Babel: The Language Magazine 2018, Issue 25. Page 34-35.
- 2018 **Little, Hannah**. "The Talking Dead" Feature Article in Babel: The Language Magazine 2018, Issue 24. Page 32-34.
- 2018 **Little, Hannah**. "Babel on 5" Feature Article in Babel: The Language Magazine 2018, Issue 23. Page 42-44.
- 2016 **Little, Hannah**. "How reliably can we measure the relatedness of two languages?" Ask a Linguist Feature. Babel: The Language Magazine 2016, Issue 16. Page 35.
- 2015 **Little, Hannah**. "The Combinatorial Structure of Language, Music, Life and Everything". Cover Feature. Babel: The Language Magazine 2015, Issue 13. Pages 14–17.
- 2011 2012 Various Copy in EuSci: Student Science Magazine of the University of Edinburgh.

#### Public Engagement Activities (Full list available on request)

- 2018 Organiser Ada Lovelace Day Wiki edit-a-thon. UWE Bristol.
- 2018 Panellist for "Agony Auncles of Science". Crofters Rights, Bristol
- 2017 Judge for the "3 minute wonder" competition. Institute of Physics, Bristol University.
- 2017 Christmas lecture zone. I'm a Scientist get me out of here, Wellcome Trust, London
- 2014 Greenlight for Girls (Kodu coding workshop), Brussels, Belgium
- 2013 I'm a Scientist get me out of here, Wellcome Trust, London
- 2012 Greenlight for Girls (Blockly coding workshop), Brussels, Belgium
- 2012 BBC, Science explainer on Mr. Bloom's Nursery Roadshow, Ready, Set, Grow!
- 2012 Newcastle Science Festival Roadshow
- 2011-present STEM (Science, Technology, Engineering and Maths) Ambassador, STEMNET
  - 2011-2012 Member of the NE Science alliance
  - 2011–2012 Member of the Newcastle Branch of the British Science Association

#### **Public Engagement Speaking**

- 2019 Science Cafe. Sherborne, UK.
- 2019 Devizes Arts Festvial. Devizes. UK.
- 2019 Bristol Know Show. Bristol, UK.
- 2018 Cafe Scientifique. Salisbury, UK.
- 2018 British Science Festival. Hull, UK.
- 2018 British Science Association: Science Cafe. Bristol, UK.
- 2017 "Where do words come from?" Radboud Talks, Nijmegen, the Netherlands.
- 2016 "Tweets and Waggles." Stand-up Comedy. Brussels Bright Club, Belgium.
- 2015 "Animal Communication." Let's talk Science Stand-up science show, Leuven, Belgium.
- 2012 "The evolution of language: culture or cognition?" Newcastle Skeptics in the Pub.
- 2012 "The Public Misunderstanding of Linguistics." Stand-up Comedy. Newcastle Bright Club.

#### Delivering Continuing Professional Development in Public Engagement

- 2018 "Adapting to Audiences". UWE Science Communication Masterclass. Bristol, UK
- ongoing "Science Communication Building Blocks" CPD. I deliver sessions on: Getting started in science communication, Working with schools, Engaging hard to reach audiences, Inclusively in science communication, Using social media to communicate, How to run a social media campaign for event promotion science.

### **Politics**

#### **Elected Political Positions**

- 2018-present Women's Officer for Bristol West Constituency Labour Party Executive Committee.
  - 2018 Elected CLP Delegate (Women's delegate) representing Bristol West at Labour's Annual Conference. Liverpool.

#### **Delivering Political Training**

- 2019 Public Speaking Workshop. Bristol Transformed.
- 2019 Sylvia Pankhurst Organising Workshop for International Women's day. Ella Baker School for Transformative Organising.
- 2019 Public Speaking For All. Funded by Momentum (the Labour Party).
- 2018 Persuasive Conversations. South Gloucestershire.
- 2018 Speaking out workshop. TUC (Trades Union Congress) South West Women's committee networking event.
- 2018 Short course: Public Speaking for women. Funded by Momentum (the Labour Party).
- 2018 Public Speaking for women in politics. 3 part course. Funded by Momentum (the Labour Party).

#### **Digital Rights Organising**

- 2018 Speaker (on behalf of the Open Rights Group) "Online surveillance and us, why digital freedom matters". Bristol, UK
- 2018 Volunteer. Mozilla Festival (MozFest).
- 2018 Organiser (on behalf of the Open Rights Group) "Drafting letter to the PCC about the legal basis of Cellebrite". Bristol,  $\mathsf{UK}$
- 2018 Panelist for the Royal Institution's "Unconference" on Digital Privacy. Ri, London.
- 2018-present Local Coordinator (Bristol). Open Rights Group.