

# NAOMI TACHIKAWA SHAPIRO

+ 1 000 000 0000 | tsnaomi@uw.edu | tsnaomi.net

## EDUCATION

Ph.D., Computational Linguistics, *anticipated June 2022*  
University of Washington

— Visiting Student Researcher, Autumn 2019  
Stanford University

M.S., Symbolic Systems, 2016  
Stanford University

B.A., Linguistics and Communication with Honors, 2011  
University of Washington

## PAPERS

Naomi Tachikawa Shapiro, Daniel Hippe, and Naja Ferjan Ramírez. In press. How chatty are daddies? An exploratory study of infants' language environments. *Journal of Speech, Language, and Hearing Research*.

Naomi Tachikawa Shapiro and Arto Anttila. In press. On the phonology and semantics of deaccentuation. *Proceedings of the 2020 Annual Meeting on Phonology (AMP)*.

Naomi Tachikawa Shapiro, Amandalynne Paullada, and Shane Steinert-Threlkeld. 2021. A multilabel approach to morphosyntactic probing. *arXiv:2104.08464*.

Naja Ferjan Ramírez, Daniel Hippe, and Naomi Tachikawa Shapiro. 2021. Exposure to electronic media between 6 and 24 months of age: An exploratory study. In Lauren Myers and Martha Arterberry (eds.), *Digital Media and Children Under 3 Years of Age*, special issue of *Infant Behavior and Development*, 63, 101549.

Arto Anttila, Timothy Dozat, Daniel Galbraith, and Naomi Tachikawa Shapiro. 2020. Sentence stress in presidential speeches. In Gerrit Kentner and Joost Kremers (eds.), *Prosody in Syntactic Encoding*, special issue of *Linguistische Arbeiten*, 17–50.

Arto Anttila and Naomi Tachikawa Shapiro. 2017. The interaction of stress and syllabification: Parallel or serial? *Proceedings of the 34<sup>th</sup> West Coast Conference on Formal Linguistics (WCCFL)*, 52–61.

Naomi Tachikawa Shapiro. 2016. Splitting compounds with ngrams. *Proceedings of the 26<sup>th</sup> International Conference on Computational Linguistics: Technical Papers (COLING)*, 630–640.

## PRESENTATIONS + POSTERS

Naja Ferjan Ramírez, Daniel Hippe, and Naomi Tachikawa Shapiro. 9 April 2021. Exposure to electronic media between 6 and 24 months of age: An exploratory study. *Society for Research in Child Development Biennial Meeting (SRCD)*, *Virtual*.

Naomi Tachikawa Shapiro, Amandalynne Paullada, and Shane Steinert-Threlkeld. 20 November 2020. Mighty morpho-probing models. *The 3rd BlackboxNLP Workshop on Analyzing and Interpreting Neural Networks for NLP* (BlackboxNLP; extended abstract), *Virtual*.

Naomi Tachikawa Shapiro, Daniel Hippe, and Naja Ferjan Ramírez. 6 November 2020. How chatty are daddies? Parental differences in the language environments of infants. *The 45<sup>th</sup> Boston University Conference on Language Development* (BUCLD), *Virtual*.

Arto Anttila and Naomi Tachikawa Shapiro. 18 September 2020. Invited tutorial: Corpus studies in phrasal prosody. *Workshop on Intonation, Annual Meeting on Phonology* (AMP), *Virtual*.

Emily Atkinson, Ian Rigby, Naomi Tachikawa Shapiro, Brent Woo, and Akira Omaki. 17 March 2018. Syntactic adaptation effects do not transfer across tasks. *CUNY Conference on Human Sentence Processing, UC Davis*.

Naomi Tachikawa Shapiro. 23 May 2016. A language modeling and constraint-based approach to compound segmentation. *Symbolic Systems Forum, Stanford University*.

Naomi Tachikawa Shapiro. 8 April 2016. Finnish compound segmentation. *Phonetics and Phonology Workshop, Linguistics Department, Stanford University*.

## RESEARCH ASSISTANTSHIPS

Phonetics Lab + Language Development & Processing Lab, University of Washington, 12/2020 – 3/2021

*PIs: Richard Wright and Marina Oganyan*

Analyzed visual word eye-tracking data to study the effects of sonority and salience on the perception of novel consonant clusters.

Language Development & Processing Lab, University of Washington, 12/2019 – 3/2020; 9/2020 – 12/2020

*PI: Naja Ferjan Ramírez*

Used mixed-effects linear regression to analyze Language ENvironmental Analysis (LENA) recordings. Focused on infant volubility and its associations with parental speech and electronic media exposure.

Language Development & Processing Lab, University of Washington, 9/2017 – 3/2018

*PI: Akira Omaki*

Studied filler-gap dependencies and syntactic adaptation with adults via reading-based eye-tracking experiments. Investigated how children process verb-complement ambiguities with children using the visual world paradigm.

Linguistics Department, Stanford University, 1/2015 – 9/2015; 6/2016 – 12/2017

*PI: Arto Anttila*

Investigated Finnish phonotactics and English sentential prosody via computational and information-theoretic approaches. Created the Python package *FinnSyll* for the automatic syllabification of Finnish.

## INDUSTRY

*Summer Associate*, RAND Corporation, 6/2020 – 9/2020

Worked on supervised and weakly supervised methods for text classification.

*Backend Engineer*, Venyooz, 6/2014 – 12/2014; 2/2017 – 9/2017

Built the beta version of *SchoolSpace*, web-based software for school districts to manage facility rentals.

*Production Engineer*, Wavii (acquired by Google in 2013), 3/2012 – 3/2013

Managed the text and image content on the frontend of a news aggregator app. Annotated news snippets for genre, named entities, and predicate relations.

## TEACHING

### *University of Washington*

- Instructor of Record, LING/CSE 472 Introduction to Computational Linguistics, Spring 2021
- Teaching Assistant, LING 200 Introduction to Linguistic Thought, Spring 2020
- Teaching Assistant, LING 200 Introduction to Linguistic Thought, Spring 2018

### *Girls Who Code*

- Lead Instructor, Summer Immersion Program in Redmond, WA, Summer 2019

### *Stanford University*

- Teaching Assistant, SYMSYS 100 Minds and Machines, Autumn 2015

### *Code Fellows*

- Teaching Assistant, Python Web Development, Summer 2014

## AWARDS

Eero and Helli Tetri Endowed Fund for Finnish Studies Scholarship, 2019

Foreign Language and Area Studies (FLAS) Fellowship – Modern Hebrew, 2018-2019

## SERVICE

*President*, Linguistics Society at the University of Washington (LSUW), 2020-2021

*Faculty Search Committee* (Language Acquisition and Morphosyntactic Processing), Linguistics Department, University of Washington, 2019-2020

*Admissions Reading Committee*, Symbolic Systems M.S. Program, Stanford University, 2016

### *Reviewer*

- The Joint Conference of the 49<sup>th</sup> Annual Meeting of the Association for Computational Linguistics and the 11<sup>th</sup> International Joint Conference on Natural Language Processing (ACL-IJCNLP), 2021
- The 27<sup>th</sup> International Conference on Computational Linguistics (COLING), 2018

## LANGUAGES

English (native), Modern Hebrew (intermediate), Japanese (beginner-intermediate), Finnish (research)

## CODE

*Languages*: Python, R, JavaScript, Ruby, HTML/CSS

*Deep Learning Libraries*: PyTorch, Keras, TensorFlow (coursework)

*Web Frameworks*: Django, Flask, Node.js (coursework), Rails

*Databases*: PostgreSQL, MongoDB (coursework)