

# SHOHINI BHATTASALI

## PERSONAL INFORMATION

*email*                    [shohini@umd.edu](mailto:shohini@umd.edu)  
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## EMPLOYMENT

University of Maryland, College Park, MD 20742  
Department of Linguistics · Institute of Advanced Computer Studies (UMIACS)  
PI: Philip RESNIK

*Postdoctoral  
Associate  
2019 – Present*

## EDUCATION

Cornell University, Ithaca, NY 14853

*PhD*  
{2014 – 2019}  
*MA* 2017

Department of Linguistics · Graduate Minor in Cognitive Science  
Dissertation: *A Neurolinguistic Approach to Noncompositionality & Argument Structure*  
Dissertation Committee: John HALE (chair) · Miloje DESPIC · John WHITMAN  
· Wen-Ming LUH · Murielle FABRE

Bryn Mawr College, Bryn Mawr, PA 19010

*AB*  
{2010 – 2014}  
*magna cum laude*

Major: Linguistics (Hons) · Minors: Computer Science and Chinese  
Thesis: *Correlations Between Sentiment Analysis of Movie Tweets, Film Critics Reviews, and Box Office Earnings*

Yunnan University, Kunming, People's Republic of China

*Summer 2012*                Study Abroad

## AWARDS

2019                        President's Travel Fund for the Humanities, Cornell University

2019, 2018, 2017        Cognitive Science Travel Grant, Cornell University

2018, 2014                Sage Fellowship, Cornell University

2017                        EFL Mobility Grant, Laboratoire d'excellence-EFL (CNRS, Paris)

2018, 2017, 2016        Graduate School Conference Travel Grant, Cornell University

2018, 2017, 2016        Linguistics Department Conference Travel Grant, Cornell University

2013                        Summer Science Research Fellowship in Computer Science, Bryn Mawr College

2012                        Thomas Raeburn White Scholarship in Foreign Language Study, Bryn Mawr College

## PUBLICATIONS

2020                        The Alice Datasets: fMRI & EEG Observations of Natural Language Comprehension  
Shohini BHATTASALI, Jonathan BRENNAN, Wen-Ming LUH, Berta FRANZLUEBBERS, John HALE

- 2020 *12th International Language Resources and Evaluation Conference (LREC 2020)*, Marseille, France. [Refereed by paper]
- 2020 Modeling Conventionalization and Predictability in Multiword Expressions at the Brain level  
Shohini BHATTASALI, Murielle POPA-FABRE, John HALE, Christophe PALLIER  
*Proceedings of the Society for Computation in Linguistics (SCiL 2020)*, New Orleans, LA. [Refereed by paper]
- 2019 Diathesis Alternations and Selectional Restrictions in Sentence Processing: A fMRI Study  
Shohini BHATTASALI, John HALE  
*Proceedings of the 55th Meeting of the Chicago Linguistic Society (CLS 55)*, Chicago, IL. [Refereed by abstract]
- 2019 Localising Memory Retrieval and Syntactic Composition: A fMRI study of Natural Language Comprehension  
Shohini BHATTASALI, Murielle FABRE, Wen-Ming LUH, Hazem ALSAIED, Matthieu CONSTANT, Christophe PALLIER, Jonathan BRENNAN, R. Nathan SPRENG, John HALE  
*Language, Cognition and Neuroscience*, 34:4, 491 – 510.
- 2018 Processing MWEs: Neurocognitive Bases of Verbal MWEs and Lexical Cohesiveness within MWEs  
Shohini BHATTASALI, Murielle FABRE, John HALE,  
*Proceedings of the 14th Workshop on Multiword Expressions (COLING 2018)*, Santa Fe, NM. [Refereed by paper]
- 2018 Differentiating Phrase Structure Parsing and Memory Retrieval in the Brain  
Shohini BHATTASALI, John HALE, Christophe PALLIER, Jonathan BRENNAN, Wen-Ming LUH, R. Nathan SPRENG  
*Proceedings of the Society for Computation in Linguistics (SCiL 2018)*, Salt Lake City, UT. [Refereed by paper]
- 2016 Computational Approach to Bengali Stress  
Shohini BHATTASALI  
In *Cornell Working Papers in Phonetics and Phonology*, Ithaca, NY.
- 2015 Automatic Identification of Rhetorical Questions  
Shohini BHATTASALI, Jeremy CYTRYN, Elana FELDMAN, Joonsuk PARK  
In *Proceedings of the 53rd Annual Meeting of the Association for Computational Linguistics (ACL '15)*, Beijing, China. [Refereed by paper]

#### PRESENTATIONS

- 2020 Differentiating between broad & local context cues using surprisal: An fMRI study  
Shohini BHATTASALI, Philip RESNIK  
*26th Architectures and Mechanisms of Language Processing conference (AMLaP 2020)*, Potsdam, Germany. [Refereed by abstract]
- 2020 Investigating the role of context in comprehension using topical surprisal: An fMRI study  
Shohini BHATTASALI, Philip RESNIK  
*33rd Annual CUNY Sentence Processing Conference (CUNY 2020)*, Amherst, MA. [Refereed by abstract]
- 2020 Probing the neural correlates of argument structure: A fMRI study of naturalistic language  
Shohini BHATTASALI, Murielle POPA-FABRE, John HALE  
*33rd Annual CUNY Sentence Processing Conference (CUNY 2020)*, Amherst, MA. [Refereed by abstract]
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- 2019 Modeling Conventionalization and Predictability in Multiword Expressions at the Cerebral Level  
Murielle POPA-FABRE, Shohini BHATTASALI, John HALE, Christophe PALLIER  
*Collaborative Research in Computational Neuroscience (CRCNS 2019)*, Austin, TX.
- 2018 Right Lateralization of Verbal Collocations  
Shohini BHATTASALI, Murielle FABRE, John HALE,  
*24th Architectures and Mechanisms of Language Processing conference (AMLaP 2018)*, Berlin, Germany. [Refereed by abstract]
- 2018 Break the ice vs. boa constrictors: Do they have different neural bases?  
Shohini BHATTASALI, Murielle FABRE, John HALE  
*10th Annual Meeting of the Society of Neurobiology of Language (SNL 2018)*, Québec City, Canada. [Refereed by abstract]
- 2018 Dissociating prediction and constituent-structure during sentence-structure building  
Murielle FABRE, Shohini BHATTASALI, John HALE, Christophe PALLIER  
*10th Annual Meeting of the Society of Neurobiology of Language (SNL 2018)*, Québec City, Canada. [Refereed by abstract]
- 2018 Brain imaging of lexical cohesiveness and sentence-structure building  
Murielle FABRE, Shohini BHATTASALI, Hazem ALSAIED, Matthieu CONSTANT, Christophe PALLIER, Wenming LUH, John HALE,  
*Collaborative Research in Computational Neuroscience (CRCNS 2018)*, Berkeley, CA.
- 2018 Mapping Memory Retrieval and Structure-building in the Brain  
Shohini BHATTASALI, Murielle FABRE, John HALE, Hazem ALSAIED, Matthieu CONSTANT  
*31st Annual CUNY Sentence Processing Conference (CUNY 2018)*, UC Davis, CA. [Refereed by abstract]
- 2017 Localizing Structure-building and Memory Retrieval in Naturalistic Language Comprehension  
John HALE, Shohini BHATTASALI, Jonathan BRENNAN, Jixing LI, Wen-Ming LUH, Christophe PALLIER, R. Nathan SPRENG  
*9th Annual Meeting of the Society of Neurobiology of Language (SNL 2017)*, Baltimore, MD. [Refereed by abstract]
- 2017 Neuroimaging the language network with a parsing algorithm  
John HALE, Jonathan BRENNAN, Shohini BHATTASALI, Wen-Ming LUH, Christophe PALLIER  
*Collaborative Research in Computational Neuroscience (CRCNS 2017)*, Providence, RI.
- 2017 Am I Stressed? Computational Approach to Bengali Stress  
Shohini BHATTASALI  
*91st Annual Meeting of the Linguistic Society of America (LSA 2017)*, Austin, TX. [Refereed by abstract]
- 2015 Processing Ambiguity in Bengali Correlatives  
Shohini BHATTASALI  
*Workshop on Relative Clauses: Relatives in East Asia and Beyond*, Cornell University.

## TALKS

- 2020 Neural Mechanisms of MWEs  
Invited talk, *Computational Linguistics (GUCL) colloquium*, Georgetown University.
- 2020 Introduction to Computational Neurolinguistics  
Guest lecture, *LING 773: Computational Linguistics II*, University of Maryland.
- 2020 Computational Modeling of Neural Data in Sentence Understanding

- ONR MURI on Document Comprehension Annual Review Meeting, George Mason University.
- 2020 The Alice Datasets  
Panelist, *CUNY 2020 Workshop on Remote Data Collection*.
- 2019 Using Computational Linguistics to Investigate Multiword Expressions at the Brain Level  
Invited talk, *Computational Linguistics and Information Processing Colloquium*, University of Maryland.
- 2019 Verbs in Sentence Processing: Subcategorization & Selectional Restrictions  
*Cognitive Science Grad Student Info Blitz*, Cornell University.
- 2019 Processing Multiword Expressions & Verbal Argument Structure: A fMRI study  
Invited talk, *Cognitive Neuroscience of Language*, University of Maryland.
- 2018 Differentiating Structure Building & Memory Retrieval in natural language using MWEs  
*Cognitive Science Grad Student Info Blitz*, Cornell University.
- 2018 Neural Bases of Discourse Comprehension  
Guest lecture, *LING 2264: Language, Mind, and Brain*, Cornell University.
- 2017 Sense & Reference: Introduction to Semantics  
*LING 3303: Introduction to Syntax & Semantics*, Cornell University.
- 2017 Localization of composition and memory in language using fMRI data  
*Cognitive Science Grad Student Info Blitz*, Cornell University.
- 2017 Processing MWEs: A Neurolinguistic Approach  
*Linguistics Graduate Research Workshop Presentations*, Cornell University.
- 2016 Finite-state Approach to Bengali Stress  
*Linguistics Graduate Research Workshop Presentations*, Cornell University.

## TEACHING

## University of Maryland

- Fall 2019* Co-Instructor with Philip Resnik · LING 848A: Seminar in Computational Linguistics & Cognitive Neuroscience of Language  
Designed and led an interdisciplinary graduate seminar discussing recent topics at the confluence of computational linguistics, psycholinguistics, and cognitive neuroscience of language.

## Cornell University

- Summer 2019* Co-Facilitator · WRIT 7100: Teaching Writing  
Trained graduate students to develop course materials and pedagogical tools for a writing seminar by developing class activities, responding to student assignments, and designing & leading workshops.
- Spring 2018* Teaching Assistant · LING 4424: Introduction to Computational Linguistics  
Held office hours & review sections and graded exams & biweekly assignments
- Fall 2017* Teaching Assistant · LING 3303: Introduction to Syntax & Semantics  
Designed and led weekly review sections to contextualize lectures and graded exams & weekly assignments
- Spring 2017,*  
*Fall 2016* Teaching Assistant · HINDI 1101/2: Elementary Hindi I/II  
Taught introductory-level Hindi, developed course materials, and graded daily assignments & weekly tests
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- Spring 2016,  
Fall 2015* Instructor, First-Year Writing Seminar · LING 1100: Translation & Writing  
Developed and taught a seminar which incorporates topics in translation and linguistic theory with practical experience in academic writing
- 2014 - 2018* Teaching Assistant · Acquiring Multiple Languages  
Compiled various language acquisition and developmental linguistics studies to develop course materials and create a repository for an online edX course  
[https://edge.edx.org/courses/CornellX/CLAL1000-2x/Fall\\_2014/about](https://edge.edx.org/courses/CornellX/CLAL1000-2x/Fall_2014/about)

### Bryn Mawr College

- Fall 2013* Undergraduate Teaching Assistant · Introduction to Computational Linguistics  
Held two weekly problem sessions to help students with class readings and lab assignments

### PROFESSIONAL DEVELOPMENT

- Summer 2020* Mentoring for New Mentors Workshop Series · Office of Postdoctoral Affairs, University of Maryland  
Participated in workshops to develop and improve mentoring skills and gain exposure to various mentoring challenges and strategies, along with creating a personal mentoring philosophy.
- Spring 2020* Sharing Research with Younger Audiences · Graduate School Writing Center, University of Maryland  
Learned how to communicate our research to younger audiences, create interest & foster appreciation for critical thinking, along with understanding different formats & medium for outreach.
- Fall 2019 - Present* UTLP Workshops · Teaching & Learning Transformation Center, University of Maryland  
Participated in various professional development & teaching workshops such as crafting teaching & mentoring philosophies, creating diverse & inclusive classrooms among others.
- September 2019* Postdoctoral Research Symposium · Office of Postdoctoral Affairs, University of Maryland  
Attended panels and participated in workshops to develop techniques needed for researchers including effective teaching & communication, along with career strategies to transition from postdoctoral researcher to independent researcher.
- June 2018* Future Professors Institute: Advancing Diversity in the Academy · Graduate School Office of Inclusion & Student Engagement, Cornell University  
Participated in workshops & seminars geared towards students of color & underrepresented groups preparing for academic careers.
- Fall 2017* ALS 6015: Teaching in Higher Education · Centre for Teaching Innovation, Cornell University  
Participated in course activities related to effective teaching and professional development to prepare for a faculty position in higher education
- 2016 - 2019* GET SET Pedagogy Workshops · Centre for Teaching Innovation, Cornell University  
Participated in workshops covering various issues in teaching and learning in higher education such as assessing learning, creating an engaging classroom, innovative approaches in pedagogy among others
- Summer 2015* WRIT 7100: Teaching Writing course · Knight Institute for Writing in the Disciplines, Cornell University
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*Spring 2015* ASIAN 5505: Methodology of Asian Language learning and teaching course ·  
Department of Asian Studies, Cornell University

#### AFFILIATIONS, SERVICE & OUTREACH

*2020 – Present* Computational Cognitive Neuroscience of Language Reading Group ·  
University of Maryland  
Organizer

*January 2020* Brains On! Science Podcast for Kids · American Public Media  
Linguistics Consultant

*2020 – Present* European Chapter of the Association of Computational Linguistics (EACL)  
Reviewer

*2020 – Present* SIGNLL Conference on Computational Natural Language Learning (CoNLL)  
Program Committee

*2020 – Present* Empirical Methods in Natural Language Processing (EMNLP)  
Reviewer

*2020 – Present* Association of Computational Linguistics (ACL)  
Reviewer

*2020 – Present* Cognitive Science Society  
Member

*2019 – Present* Cognitive Neuroscience of Language (CNL) lab · University of Maryland  
Member

*2019 – Present* Computational Linguistics and Information Processing (CLIP) lab · University  
of Maryland  
Member

*2018 – 2019* Tenure Track Position in Experimental Linguistics · Cornell University  
Search Committee

*2019, 2018, 2017* National Computational Linguistics Olympiad (NACLO) · Cornell University  
Local Host Site Assistant Organizer

*2017 – 2018* Annual Meeting for the North East Linguistics Society (NELS 49)  
Organizing Committee

*2017 – Present* Society for the Neurobiology of Language  
Student Member

*2016 – Present* Linguistic Society of America  
Student Member

*2016 – 2018* Graduate & Professional Students Assembly · Cornell University  
Academic Integrity Hearing Board member

*2016* Conference on Laboratory Phonology (LabPhon 15)  
Volunteer

*2015 – Present* Association of Computational Linguistics  
Member

*2015 – 2019* Brain & Language lab · Cornell University  
Member · Lab Manager {2016 - 2017}

*2014 – 2019* Computational Linguistics lab · Cornell University  
Member

*2014 – 2019* Cornell Linguistics Circle  
President {2016 - 2017} · Web Admin { 2014 - 2016 } · Social Committee {2014  
- 2015 }

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## SKILLS

*Computer Skills*

Intermediate: HTML · L<sup>A</sup>T<sub>E</sub>X · PSYCHOPY · SPM · MATLAB  
Advanced: JAVA · PYTHON · C++

*Languages*

Native Speaker: English · Bengali · Hindi  
Fluent: Mandarin Chinese

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