

# Curriculum Vitae

## Shreya Havaldar

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### EDUCATION

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#### University of Pennsylvania

*PhD Computer and Information Science*

Advisors: Lyle Ungar, Eric Wong

August 2021 - May 2026 (anticipated)

#### University of Southern California

*B.S. Computer Science*

*B.S. Applied & Computational Mathematics*

Advisor: Morteza Dehghani

August 2017 - May 2021

### RESEARCH STATEMENT

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I specialize in culturally-aware multilingual NLP, analyzing how culture influences linguistic styles (emotion, politeness, etc.), creating explanation methods to derive cultural insight from black-box models, and mitigating Anglocentric bias in modern LMs. Currently, I am working on (1) quantifying & explaining how translation fails to preserve style, (2) psychologically grounded metrics for dialog system evaluation, and (3) measuring regional variation in culture both within the US and globally.

### AWARDS & HONORS

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NSF Graduate Research Fellowship (2023)

Best Paper Award at WASSA (2023)

Summa Cum Laude (2021)

USC Computer Science Outstanding Student Award (2021)

USC Computer Science Outstanding Service Award (2021)

Cisco Engineering Excellence Scholarship (\$5,000/year)

USC Presidential Scholarship (~\$30,000/year)

National Merit Scholarship (\$1,000/year)

Brittingham Social Enterprise Lab Scholar (2020)

Grace Hopper Research Scholar (2018, 2019)

## PREPRINTS (\* indicates equal contribution)

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**Havalдар, S.\***, You, W.\*, Ungar, L., Wong, E., (2023). Visual Topics via Visual Vocabularies. *Under Review*.

**Havalдар, S.**, Pressimone, M., Wong, E., Ungar, L. (2023). Comparing Styles across Languages. *Under Review*.

Giorgi, S., **Havalдар, S.**, Ahmed, F., Akhtar, Z., Vaidya, S., Pan, G., Ungar, L., Schwartz, H. A., & Sedoc, J. (2023). Human-Centered Metrics for Dialog System Evaluation. *Under Review*.

**Havalдар, S.**, Giorgi, S., Talhelm, T., Guntuku, S. C., & Ungar, L. (2023). Building Knowledge-Guided Lexica to Model Cultural Variation. *Under Review*.

## PUBLICATIONS (\* indicates equal contribution)

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**Havalдар, S.**, Rai, S., Singhal, B., Liu, L., Guntuku, S. C., & Ungar, L. (2023). Multilingual Language Models are not Multicultural: A Case Study in Emotion. *WASSA @ ACL. **Best Paper Award***.

Lyu, Q.\*, **Havalдар, S.\***, Stein, A.\*, Zhang, L., Rao, D., Wong, E., Apidianaki, M., & Callison-Burch, C. (2023). Faithful Chain-of-Thought Reasoning. *AACL*.

**Havalдар, S.**, Stein, A., Wong, E., & Ungar, L. (2023). TopEx: Topic-based Explanations for Model Comparison. *ICLR (Tiny Papers Track)*.

Aggarwal, A., Rai, S., Giorgi, S., **Havalдар, S.**, Sherman, G., Mittal, J., & Guntuku, S. C. (2023). A Cross-Modal Study of Pain Across Communities in the United States. *ACM Web Conference (Companion Proceedings)*.

Stade, E. C., Ungar, L., **Havalдар, S.**, & Ruscio A. M. (2023). Perseverative Thinking is Associated with Features of Spoken Language. *Behavior Research and Therapy*.

Mostafazadeh Davani, A., Atari, M., Kennedy, B., **Havalдар, S.**, & Dehghani, M. (2020). Hatred is in the Eye of the Annotator: Hate Speech Classifiers Learn Human-Like Social Stereotypes. *Proceedings of the 42nd Annual Conference of the Cognitive Science Society*.

Kennedy, B., Atari, M., Mostafazadeh Davani, A., Yeh, L., Omrani, A., Kim, Y., Coombs Jr, K., **Havalдар, S.**, et al. (2020). The Gab Hate Corpus: A Collection of 27k Posts Annotated for Hate Speech. *Language Resources and Evaluation*.

Khaled, M., Corner, G. W., Morris, A., **Havaldar, S.**, Luo, E., Saxbe, D. (2020). Physiological Linkage in Pregnancy: Couples' Cortisol, Negative Conflict Behavior, and Postpartum Depression. *Journal of Biological Psychology*.

Hoover, J., Portillo-Wightman, G., Yeh, L., **Havaldar, S.**, Davani, A. M., et al. (2020). Moral Foundations Twitter Corpus: A Collection of 35k Tweets Annotated for Moral Sentiment. *Social Psychological and Personality Science*.

## TEACHING EXPERIENCE

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**UPenn School of Engineering and Applied Science** August 2022 - Present

*Teaching Assistant: CS5300 (Computational Linguistics), CS3990 (Mathematics of Machine Learning)*

- Assisting with creating/testing curriculum, holding weekly office hours to help students with theoretical understanding and homework assignments

**USC Department of Computer Science**

Fall 2018 - May 2021

*Teaching Assistant: CS170 (Discrete Methods in Computer Science), CS270 (Intro to Algorithms)*

- Designed and led weekly discussion sections, held office hours to help students with theoretical understanding and homework assignments

**USC Undergraduate Center for AI in Society (CAIS++)**

Fall 2019 - May 2021

*Curriculum Lead*

- Held weekly ML lessons for a cohort of 8 undergraduate students, focused on the fundamentals of applied and theoretical machine learning.

**USC Joint Educational Project**

Fall 2018 - Spring 2019

*Undergraduate Teacher*

- Designed and implemented a comprehensive curriculum to teach local LA elementary school students about introductory computer science concepts through MIT's Scratch

## WORK EXPERIENCE

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**Microsoft - MSAI (Bellevue, WA | Remote)**

Summer 2020, Summer 2021

*Software Engineering & Data Science Intern*

- Configured a topic extraction pipeline to include database ingestion in order to include 10,000+ tenant-level features for the Microsoft Search, Assistance, and Intelligence team
- Led research and experimentation for a proposed topic classification model using various supervised learning methods and domain-specific feature selection

**Microsoft - Azure Identity (Redmond, WA)**

Summer 2019

*Software Engineering Intern*

- Worked on Microsoft Identity's mid-tier graph-based database system, added functionality to implement link counts and complex link querying capabilities
- Utilized Lucene to query indexed data and Azure Service Fabric to test on a local cluster

**LEADERSHIP**

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**Association for the Advancement of Artificial Intelligence**

Fall 2017 - Spring 2020

*President, Event Coordinator*

- Led the AAAI USC student chapter; planned AI-focused workshops, hackathons, and outreach events to encourage USC students from all backgrounds to explore AI
- Developed workshops on perceptrons, neural networks, and computer vision

**AthenaHacks**

Spring 2019 - May 2021

*Logistics Organizer*

- Worked on the Logistics committee to plan Southern California's largest all-female hackathon and empower high school/university women in the technology field

**Environmental Student Assembly**

Fall 2019 - May 2021

*Director of Technology*

- Redesigned and maintained the ESA website, worked with USC's undergraduate student government to facilitate sustainability on campus
- Assisted with the organization of a campus-wide composting initiative

**AAAI Elementary Student Outreach**

Spring 2018 - Spring 2019

*Program Director*

- Worked with Dr. Sheila Tejada to lead AI outreach events for local children during the AAAI-18 and AAAI-19 international conferences

**Society of Women Engineers**

Fall 2017 - Spring 2019

*High School Mentor*

- Acted as a year-round mentor to three girls from a Los Angeles high school; provided guidance on standardized tests and the college application process as an engineering major