Neil Rathi

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Education

BS in Math, Stanford University
Palo Alto High School

Experience

2022- Research Assistant, Stanford ALPS Lab

2020–2022 Researcher, UC Irvine Language Processing Group

2020- Math Tutor, Various

Awards

2022 CogSci Sayan Gul Undergraduate Award

8th Place Winner, Regeneron Science Talent Search

EMNLP Student Travel Grant
NSLI-Y Arabic Scholarship

Publications

Conference Papers

Neil Rathi, Michael Hahn, and Richard Futrell. 2022. Explaining patterns of fusion in morphological paradigms using the memory–surprisal tradeoff. In *CogSci 2022*. Best undergrad paper.

Neil Rathi, Michael Hahn, and Richard Futrell. 2021. An information-theoretic characterization of morphological fusion. In *EMNLP*.

Neil Rathi. 2021. Dependency locality and neural surprisal as predictors of processing difficulty: Evidence from reading times. In *CMCL* (@ *NAACL*).

Presentations

2021

2021

2022

2021

2021

Neil Rathi. 2022. Towards an information-theoretic model of inflectional morphology. UC Irvine Language Processing Group (Invited).

Neil Rathi, Michael Hahn, and Richard Futrell. 2021. Information-theoretic characterization of morphological fusion. SIGTYP @ NAACL. **Best paper.**

Neil Rathi. 2021. A neural network analysis of integration cost and surprisal. LSA 2021.

Software

Python, Tensorflow, PyTorch, Java, R, HTML/CSS, JS, WebPPL