

# Neha Verma

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## EDUCATION

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### Johns Hopkins University

Ph.D. in Computer Science

– Advisors: Kevin Duh & Kenton Murray

Baltimore, MD

2021 - current

### Yale University

B.S. in Computer Science & Mathematics

– Distinction in the Major

– Magna Cum Laude (GPA: 3.95/4.00)

New Haven, CT

2017 - 2021

## PUBLICATIONS

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- [1] K. Marchisio, **N. Verma**, K. Duh, P. Koehn. “*IsoVec*: Controlling the Relative Isomorphism of Word Embedding Spaces”, in *Proceedings of the 2022 Conference on Empirical Methods in Natural Language Processing (EMNLP)*, 2022.
- [2] **N. Verma**, K. Murray, K. Duh. “Strategies for Adapting Multilingual Pre-training for Domain-Specific Machine Translation”, in *Proceedings of the 15th biennial conference of the Association for Machine Translation in the Americas (AMTA)*, 2022.
- [3] I. Li, J. Pan, J. Goldwasser, **N. Verma**, W. P. Wong, M. Nuzumlah, B. Rosand, Y. Li, M. Zhang, D. Chang, R. A. Taylor, H. M. Krumholz, D. Radev. “Neural Natural Language Processing for Unstructured Data in Electronic Health Records: a Review”, in *Computer Science Review*, 2022.
- [4] L. Nan, C. Hsieh, Z. Mao, X. Lin, **N. Verma**, R. Zhang, W. Kryściński, N. Schoelkopf, R. Kong, X. Tang, M. Mutuma, B. Rosand, I. Trindade, R. Bandaru, J. Cunningham, C. Xiong, D. Radev. “FeTaQA: Free-form Table Question Answering”, *Transactions of the Association for Computational Linguistics (TACL)*, 2021.
- [5] L. Nan, D. Radev, R. Zhang, A. Rau, A. Sivaprasad, C. Hsieh, X. Tang, A. Vyas, **N. Verma**, P. Krishna, Y. Liu. “DART: Open-domain structured data record to text generation”, *Proceedings of the NAACL-HLT*, 2021, pp. 432-447.
- [6] R. Zhang, C. Westerfield, S. Shim, G. Bingham, A. Fabbri, W. Hu, **N. Verma**, and D. Radev. “Improving Low-Resource Cross-lingual document Retrieval by Reranking with Deep Bilingual Representations”, *Proceedings of the Association for Computational Linguistics (ACL)*, 2019, pp. 3173-3179.

## RESEARCH & WORK EXPERIENCE

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- **Graduate Research Assistant**, CLSP @ JHU 2021-present
  - Working on various translation-related projects. Work published at EMNLP ‘22 [1] and AMTA ‘22 [2], others ongoing.

- **Research Assistant**, LILY Lab @ Yale 2018-2021
  - Worked with professor Dragomir Radev on projects related to cross-lingual information retrieval and text generation from structured data. Work published at ACL ‘19, NAACL ‘21, TACL ‘21, and Computer Science Review [3,4,5,6].
- **Data Science Intern**, CVS Health Summer 2020
  - Interned with the Kidney Care Analytics team building predictive models for identifying patients at high risk for acute complications.
- **Summer Undergrad Math Research at Yale (SUMRY)** Summer 2019
  - Worked with a small group under professor Karamatou Djima on medical image denoising via graph spectral techniques.

## TEACHING EXPERIENCE

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- **Undergraduate Learning Assistant**, Yale University
 

Responsibilities: Office hours, one-on-one tutoring, grading, answering questions on class-wide forums

  - Language and Computation (LING 227) Spring 2021
  - Abstract Algebra (MATH 350) Fall 2019 & 2020
  - Linear Algebra & Vector Calculus II (MATH 231) Spring 2019
- **Peer Tutor**, Yale University
 

Responsibilities: Office hours, one-on-one tutoring

  - Fields & Galois Theory (MATH 370) Spring 2020 & 2021
  - Calculus of Functions of Several Variables (MATH 120) Fall 2018

## SERVICE

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- **Program Committee Member**
  - AMTA 2022
- **JHU CLSP Application Support Program Organizer** 2022-present
  - Organizing a pre-application support program providing graduate application feedback to prospective applicants from underrepresented backgrounds.
- **NACLO Organizer**, Yale University 2020-2021
  - Hosted practice sessions for the North American Computational Linguistics Olympiad for local high school students, and helped organize and host the open and invitational rounds.

## FELLOWSHIPS AND AWARDS

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- Phi Beta Kappa 2021
- Yale College First-Year Summer Research Fellowship in the Sciences & Engineering 2018