# Nitish Gupta

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## Research Interests

Natural Language Processing – Structured and Interpretable models for Question Answering, Semantic Parsing, Learning with weak supervision

## Education

2015-2021 (expected) **Ph.D., Computer Science**
University of Pennsylvania, Philadelphia, PA
(Transferred from University of Illinois Urbana-Champaign in 2017)
Title: Compositional and Modular models for Reasoning over Text
Advisor: Prof. Dan Roth
Thesis Committee: Prof. Mitch Marcus, Prof. Luke Zettlemoyer (external), Prof. Lyle Ungar, Prof. Chris Callison-Burch

2015 **B.Tech-M.Tech Dual Degree, Electrical Engineering**
Indian Institute of Technology (IIT) Kanpur, India
Advisor: Prof. Harish Karnick

## Awards

2015 - 2016 **Computer Science Excellence Fellowship**, University of Illinois Urbana-Champaign

2015 **Grand Prize Winner**, Yelp Dataset Challenge, Round 4. *Collective Factorization for Relational Data: An Evaluation on the Yelp Datasets. Nitish Gupta and Sameer Singh.*

## Employment

Oct - Dec 2020 **Research Intern**, *Allen Institute for AI (AI2), Seattle with Matt Gardner*

May - Aug 2019 **Research Intern**, *Google Research, New York with Tom Kwiatkowski*

May - Aug 2017 **Research Intern**, *Facebook AI Research, Palo Alto with Mike Lewis*

May - Aug 2016 **Software Engineering Intern**, *Google Inc, Mountain View with Tania Bedrax-Weiss*

May - July 2014 **Visiting Scholar**, *University of Washington, Seattle with (late) Prof. Vikram Jandhyala*

May - July 2013 **Undergraduate Intern**, *Philips Healthcare, Bangalore with Srinivas Kudavelly*

May - July 2012 **Undergraduate Research Intern**, *MPI-Inf, Germany with Prof. Kurt Mehlhorn*

## Publications

*In submission* Paired Examples as Indirect Supervision in Latent Decision Models. **Nitish Gupta**, Sameer Singh, Matt Gardner, Dan Roth

ICLR 2020 Neural Module Networks for Reasoning over Text. **Nitish Gupta**, Kevin Lin, Dan Roth, Sameer Singh, Matt Gardner.

ACL 2020 Obtaining Faithful Interpretations from Compositional Neural Networks. Sanjay Subramanian*, Ben Bogin*, **Nitish Gupta***, Tomer Wolfson, Sameer Singh, Jonathan Berant, Matt Gardner.

ACL 2020 Overestimation of Syntactic Representation in Neural Language Models. Jordan Kodner, **Nitish Gupta**.

Findings of EMNLP 2020 Improving Compositional Generalization in Semantic Parsing. Inbar Oren, Jonathan Herzig*, **Nitish Gupta***, Matt Gardner, and Jonathan Berant

Findings of EMNLP 2020 Evaluating NLP Models via Contrast Sets. Matt Gardner et al.
(with a group of 26 authors)

Findings of EMNLP 2020 — What do we expect from multiple-choice QA Systems?. Krunal Shah, **Nitish Gupta**, Dan Roth.

AAAI 2020 — Robust Named Entity Recognition with Truecasing Pretraining. Stephen Mayhew, **Nitish Gupta**, Dan Roth.

EMNLP 2018 — Neural Compositional Denotational Semantics for Question Answering. **Nitish Gupta**, Mike Lewis.

EMNLP 2018 — Joint Multilingual Supervision for Cross-lingual Entity Linking. Shyam Upadhyay, **Nitish Gupta**, Dan Roth.

EMNLP 2017 — Entity Linking via Joint Encoding of Types, Descriptions, and Context. **Nitish Gupta**, Sameer Singh, Dan Roth.

COLING 2016 — Revisiting the Evaluation for Cross Document Event Coreference. Shyam Upadhyay, **Nitish Gupta**, Christos Christodoulopoulos, Dan Roth.

## Pre-prints

Technical Report 2015 — Collectively Embedding Multi-Relational Data for Predicting User Preferences. **Nitish Gupta**, Sameer Singh.

Technical Report 2013 — Automatic Breast Lesion Segmentation and Scoring in Color Elastography Images. **Nitish Gupta**, Srinivas Kudavelly.

## Professional Activities

2018 - 2019 — **Organizer, CLunch** - Computational Linguistics Speaker Series at the University of Pennsylvania

**Reviewing:** ACL (2018, 2019, 2020), NAACL (2018, 2019, 2020), EMNLP (2018, 2019, 2020), MRQA Workshop (2018, 2019), AKBC (2019, 2020), AAAI (2017, 2018), EACL (2017); Outstanding reviewer EMNLP 2020

## Teaching

Spring 2019 — **Teaching Assistant**
CIS 700: Common-sense Reasoning

Spring 2018 — **Teaching Assistant**
CIS 530: Computational Linguistics

**Guest Lectures**
CIS 700 - Reasoning for NLP (Spring 2020), CIS 519 - Applied Machine Learning (Fall 2019), CIS 530 - Computational Linguistics (Spring 2018)

Last updated: January 10, 2021