

**Alane Suhr**  
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## Education

<b>Cornell University</b> PhD Candidate in Computer Science Advisor: Yoav Artzi	Autumn 2016–present New York, NY, USA
<b>Ohio State University</b> Honors BS in Computer Science & Engineering; Minor in Linguistics	Autumn 2012–Spring 2016 Columbus, OH, USA

## Publications

### Conference Proceedings

Alane Suhr, Claudia Yan, Jack Schluger\*, Stanley Yu\*, Hadi Khader\*\*, Marwa Moullem\*\*, Iris Zhang, and Yoav Artzi. Executing instructions in situated collaborative interactions. In *Proceedings of the Conference on Empirical Methods in Natural Language Processing and the International Joint Conference on Natural Language Processing (EMNLP-IJCNLP)*, 2019.

Alane Suhr\*, Stephanie Zhou\*, Ally Zhang, Iris Zhang, Huajun Bai, and Yoav Artzi. A corpus for reasoning about natural language grounded in photographs. In *Proceedings of the Annual Meeting of the Association for Computational Linguistics (ACL)*, 2019.

Howard Chen, Alane Suhr, Dipendra Misra, Noah Snavely, and Yoav Artzi. Touchdown: Natural language navigation and spatial reasoning in visual street environments. In *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2019.

Alane Suhr and Yoav Artzi. Situated mapping of sequential instructions to actions with single-step reward observation. In *Proceedings of the Annual Meeting of the Association for Computational Linguistics (ACL)*, 2018.

Alane Suhr, Srinivasan Iyer, and Yoav Artzi. Learning to map context-dependent sentences to executable formal queries. In *Proceedings of the Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies (NAACL-HLT)*, 2018. **Oustanding Paper Award.**

Alane Suhr, Mike Lewis, James Yeh, and Yoav Artzi. A corpus of natural language for visual reasoning. In *Proceedings of the Annual Meeting of the Association for Computational Linguistics (ACL)*, 2017. **Best Resource Paper Award.**

### Tutorials

Matt Gardner, Pradeep Dasigi, Srinivasan Iyer, Alane Suhr, and Luke Zettlemoyer. Neural semantic parsing. Presented at the *Annual Meeting of the Association for Computational Linguistics (ACL)*, 2018.

### Workshop Proceedings

Stephanie Zhou\*, Alane Suhr\*, and Yoav Artzi. Visual reasoning with natural language. In *AAAI Symposium on Natural Communication for Human-Robot Collaboration*, 2017.

\*,\*\* Equal contribution

## Magazine Articles

Alane Suhr, Mike Lewis, James Yeh, and Yoav Artzi. Evaluating visual reasoning through grounded language understanding. In *AI Magazine*, 2018.

## Research Positions

### Google AI Language

Summer–Autumn 2019

### Research Intern

Collaborators: Ming-Wei Chang, Kenton Lee, Peter Shaw

### Cornell University

Spring 2017–present

Research in grounded natural language understanding, with a focus on environment (e.g., visual) and interaction context. I have worked on defining tasks and curating datasets that represent challenging language grounding problems; modeling grounding phenomena with neural networks; and training language understanding agents with weak supervision.

### Graduate Research Assistant

Advisor: Yoav Artzi

### Ohio State University

Autumn 2015–Autumn 2016

Automatic detection of inconsistencies in the Universal Dependencies corpus.

### Undergraduate Research Assistant

Advisor: Marie-Catherine de Marneffe

## Awards and Honors

Facebook PhD Fellowship

Awarded Spring 2020

National Science Foundation Graduate Research Fellowship

Spring 2018–present

Outstanding TA Award

Spring 2018

Outstanding Paper Award (NAACL 2018)

Spring 2018

AI2 Key Scientific Challenges Award

Autumn 2017

ParIAI Research Award

Autumn 2017

Best Resource Paper (ACL 2017)

Summer 2017

AWS Cloud Credits for Research

Spring 2017

Microsoft Research Women's Fellowship

Spring 2017

Eminence Fellowship (Ohio State University)

Autumn 2012–Spring 2016

## Teaching and Mentoring Experience

Masters & Undergraduate Supervisor for various projects in the LIL Lab

Autumn 2017–Spring 2019

Internship Supervisor, Technion + Cornell Tech undergraduate visitor internship

Summer 2018

Internship Supervisor, NSF Research Experiences for Undergraduates (REU)

Summer 2018

Graduate Teaching Assistant, CS 5740 (Natural Language Processing)

Spring 2018

Internship Supervisor, Women in Technology New York

Summer 2017

Graduate Teaching Assistant, CS 4700 (Foundations of Artificial Intelligence)

Autumn 2016

Co-Organizer/Instructor, Robotics Club at Columbus North International School; support via Eminence Fellowship and P12 Initiative at Ohio State

Autumn 2014–Spring 2016

## Professional Activity

### Workshop Organization

ViGIL: Visually Grounded Interaction and Language, at NeurIPS 2019; with Florian Strub, Harm de Vries, Erik Wijmans, Drew Hudson, Abhishek Das, Stefan Lee; Scientific Committee: Mateusz Malinowski, Chris Manning, Aaron Courville, Olivier Pietquin 2019

IntEx: Interactive Executable Semantic Parsing, to appear at EMNLP 2020; with Ben Bogin, Srinivasan Iyer, Victoria Lin, Panupong (Ice) Pasupat, Pengcheng Yin, Tao Yu, Rui Zhang, Victor Zhong; Steering Committee: Jonathan Berant, Graham Neubig, Yunyao Li, Caiming Xiong, Dragomir Radev, Luke Zettlemoyer 2020

## Conference Reviewing

<u>EMNLP</u> : Conference on Empirical Methods in Natural Language Processing	2017–19
<u>ACL</u> : Annual Meeting of the Association for Computational Linguistics	2018–20
<u>NAACL-HLT</u> : Annual Meeting of the North American Association for Computational Linguistics: Human Language Technologies	2019
<u>CoNLL</u> : Conference on Computational Natural Language Learning	2019
<u>NeurIPS</u> : Neural Information Processing Systems	2019
<u>COLING</u> : International Conference on Computational Linguistics	2018
<u>AAAI</u> : Association for the Advancement of Artificial Intelligence	2017

## Workshop Reviewing

<u>MRQA</u> : Machine Reading for Question Answering	2019
<u>SiVL</u> : Shortcomings in Vision and Language Workshop	2019
<u>RoboNLP/SpLU</u> : Combined Workshop on Grounded Communication for Robotics and Spatial Language Understanding	2019
<u>NAACL SRW</u> : Student Research Workshop	2019
<u>ACL SRW</u> : Student Research Workshop	2018
<u>GenDeep</u> : Workshop on New Forms of Generalization in Deep Learning and Natural Language Processing	2018

## Invited Talks and Interviews

<u>UMass Amherst MLFL</u> : Machine Learning and Friends Lunch	2019
<i>Modeling and Learning Agents that Understand Language in Context</i>	
<u>UPenn CLunch</u> : Computational Linguistics and Lunch	2018
<i>Modeling and Learning Agents that Understand Language in Context</i>	
<u>AI2 NLP Highlights Podcast</u>	2017
<i>Episode 38: A Corpus of Natural Language for Visual Reasoning</i>	

## Department Service

Co-President of PhD Students at Cornell Tech (PACT)	2019
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## Skills

**Programming Languages.** Regular use: Python, C#, JavaScript, SQL. Less recent use: C/C++, Java, x86 assembly.

**Machine Learning and NLP Tools.** Regular use: PyTorch. Less recent use: Matlab, TensorFlow, DyNet.