

Alane Suhr
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Education

Cornell University
PhD in Computer Science
Advisor: Yoav Artzi

Autumn 2016–present
New York, NY, USA

Ohio State University
Honors BS in Computer Science & Engineering; Minor in Linguistics

Autumn 2012–Spring 2016
Columbus, OH, USA

Research Positions

Cornell University
Spring 2017–present

Graduate Research Assistant
Advisor: Yoav Artzi

Research on natural language understanding in context. Curation of datasets for challenging language grounding problems, such as visual reasoning. Neural models and learning algorithms for language understanding in multi-turn interactions.

Ohio State University
Autumn 2015–Autumn 2016

Undergraduate Research Assistant
Advisor: Marie-Catherine de Marneffe

Automatic detection of inconsistencies in the Universal Dependencies corpus.

Awards and Honors

National Science Foundation Graduate Research Fellowship	Spring 2018–present
Outstanding TA Award	Spring 2018
Outstanding Paper (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

Publications

Howard Chen, Alane Suhr, Dipendra Misra, Noah Snaveley, and Yoav Artzi. Touchdown: Natural language navigation and spatial reasoning in visual street environments. ArXiv preprint, 2018.

Alane Suhr*, Stephanie Zhou*, Iris Zhang, Huajun Bai, and Yoav Artzi. A corpus for reasoning about natural language grounded in photographs. ArXiv preprint, 2018.

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

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. **Outstanding Paper Award.**

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

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**.

**Equal contribution*

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.

Datasets

Natural Language for Visual Reasoning (NLVR) lic.nlp.cornell.edu/nlvr/

Dataset for studying language grounding and visual reasoning.

NLVR – natural language grounded in synthetic images Suhr et al. 2017 (ACL)

NLVR² – natural language grounded in web photos Suhr et al. 2018 (ArXiv)

Touchdown <https://github.com/clic-lab/touchdown>

Navigation and spatial description resolution in street environments. Chen et al. 2018 (ArXiv)

Software Engineering Experience

Google **Software Engineering Intern**

Summer 2015 Team: AdWords Express

Summer 2014 Team: Google Shopping

Kosada **Software Development Intern**

Summer 2013 Project: Vuo

Summer 2012 Project: Timestream

Teaching and Mentoring Experience

Cornell University **Graduate Teaching Assistant**

Autumn 2016 Foundations of Artificial Intelligence – CS 4700

Spring 2018 Natural Language Processing – CS 5740

Technion ↔ Cornell Tech Internship Program **Internship Supervisor**

Summer 2018

NSF Research Experiences for Undergraduates **Internship Supervisor**

Summer 2018

Women in Technology New York **Internship Supervisor**

Summer 2017–Spring 2018

Columbus North International School **Robotics Club Co-Organizer/Instructor**

Autumn 2014–Spring 2016

Professional Service

Reviewer COLING 2018

Reviewer ACL 2018

Reviewer ACL Student Research Workshop 2018

Reviewer Workshop on New Forms of Generalization in Deep Learning and Natural Language Processing (collocated with NAACL-HLT 2018) 2018

Reviewer AAAI 2017

Reviewer EMNLP 2017, 2018

Skills

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

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

Other Development. Regular use: \LaTeX , git, vim. Less recent use: HTML/CSS, Unity, EC2.