

## Peter West

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- EDUCATION**
- Doctor of Philosophy**, University of Washington 2017 - Present  
Paul G. Allen School of Computer Science & Engineering  
*Research Areas:* Natural Language Processing, Machine Learning  
*Advisor:* Yejin Choi
- Bachelor of Science**, University of British Columbia 2013 - 2017  
Department of Computer Science  
*Major:* Honors Computer Science
- PUBLICATIONS & PREPRINTS**
- The Generative AI Paradox: "What It Can Create, It May Not Understand"**  
*In Sumbission.* 2023  
**Peter West\***, Ximing Lu\*, Nouha Dziri\*, Faeze Brahman\*, Linjie Li\*, Jena D. Hwang, Liwei Jiang, Jillian Fisher, Abhilasha Ravichander, Khyathi Chandu, Benjamin Newman, Pang Wei Koh, Allyson Ettinger, Yejin Choi
- Value Kaleidoscope: Engaging AI with Pluralistic Human Values, Rights, and Duties**  
*In Sumbission.* 2023  
Taylor Sorensen, Liwei Jiang, Jena Hwang, Sydney Levine, Valentina Pyatkin, **Peter West**, Nouha Dziri, Ximing Lu, Kavel Rao, Chandra Bhagavatula, Maarten Sap, John Tasioulas, Yejin Choi
- Impossible Distillation: from Low-Quality Model to High-Quality Dataset & Model for Summarization and Paraphrasing**  
*In Sumbission.* 2023  
Jaehun Jung, **Peter West**, Liwei Jiang, Faeze Brahman, Ximing Lu, Jillian Fisher, Taylor Sorensen, Yejin Choi
- Generative Models as a Complex Systems Science: How can we make sense of large language model behavior?**  
*Self-published.* 2023  
Ari Holtzman, **Peter West**, Luke Zettlemoyer
- Localized Symbolic Knowledge Distillation for Visual Commonsense Models**  
*Neurips* 2023  
Jae Sung Park, Jack Hessel, Khyathi Chandu, Paul Pu Liang, Ximing Lu, **Peter West**, Youngjae Yu, Qiuyuan Huang, Jianfeng Gao, Ali Farhadi, Yejin Choi
- Faith and Fate: Limits of Transformers on Compositionality**  
*Neurips* 2023 (Spotlight)  
Nouha Dziri, Ximing Lu, Melanie Sclar, Xiang Lorraine Li, Liwei Jiang, Bill Yuchen Lin, **Peter West**, Chandra Bhagavatula, Ronan Le Bras, Jena D. Hwang, Soumya Sanyal, Sean Welleck, Xiang Ren, Allyson Ettinger, Zaid Harchaoui, Yejin Choi

**NovaCOMET: Open Commonsense Foundation Models with Symbolic Knowledge Distillation**

*Findings of EMNLP 2023*

**Peter West**, Ronan Le Bras, Taylor Sorensen, Bill Yuchen Lin, Liwei Jiang, Ximing Lu, Khyathi Chandu, Jack Hessel, Ashutosh Baheti, Chandra Bhagavatula, Yejin Choi

**SODA: Million-scale Dialogue Distillation with Social Commonsense Contextualization**

*EMNLP 2023 (Outstanding Paper Award for Dialogue and Interactive Systems)*

Hyunwoo Kim, Jack Hessel, Liwei Jiang, **Peter West**, Ximing Lu, Youngjae Yu, Pei Zhou, Ronan Le Bras, Malihe Alikhani, Gunhee Kim, Maarten Sap, Yejin Choi

**Inference-Time Policy Adapters (IPA): Tailoring Extreme-Scale LMs without Fine-tuning**

*EMNLP 2023*

Ximing Lu, Faeze Brahman, **Peter West**, Jaehun Jung, Khyathi Chandu, Abhilasha Ravichander, Lianhui Qin, Prithviraj Ammanabrolu, Liwei Jiang, Sahana Ramnath, Nouha Dziri, Jillian Fisher, Bill Yuchen Lin, Skyler Hallinan, Xiang Ren, Sean Welleck, Yejin Choi

**We're Afraid Language Models Aren't Modeling Ambiguity**

*EMNLP 2023*

Alisa Liu, Zhaofeng Wu, Julian Michael, Alane Suhr, **Peter West**, Alexander Koller, Swabha Swayamdipta, Noah A Smith, Yejin Choi

**Minding Language Models'(Lack of) Theory of Mind: A Plug-and-Play Multi-Character Belief Tracker**

*ACL 2023 (Outstanding Paper Award)*

Melanie Sclar, Sachin Kumar, **Peter West**, Alane Suhr, Yejin Choi, Yulia Tsvetkov

**I2D2: Inductive Knowledge Distillation with NeuroLogic and Self-Imitation**

*ACL 2023*

Chandra Bhagavatula, Jena D. Hwang, Doug Downey, Ronan Le Bras, Ximing Lu, Lianhui Qin, Keisuke Sakaguchi, Swabha Swayamdipta, **Peter West**, Yejin Choi

**Generating Sequences by Learning to Self-Correct**

*ICLR 2023*

Sean Welleck\*, Ximing Lu\*, **Peter West\*\***, Faeze Brahman\*\*, Tianxiao Shen, Daniel Khashabi, Yejin Choi

**Quark: Controllable Text Generation with Reinforced Unlearning**

*Neurips 2022*

Ximing Lu, Sean Welleck, Jack Hessel, Liwei Jiang, Lianhui Qin, **Peter West**, Prithviraj Ammanabrolu, Yejin Choi

**Referee: Reference-Free Sentence Summarization with Sharper Controllability through Symbolic Knowledge Distillation**

*EMNLP 2022*

Melanie Sclar, **Peter West**, Sachin Kumar, Yulia Tsvetkov, Yejin Choi

**Symbolic knowledge distillation: from general language models to commonsense models**

*NAACL 2022*

**Peter West**, Chandra Bhagavatula, Jack Hessel, Jena D Hwang, Liwei Jiang, Ronan Le Bras, Ximing Lu, Sean Welleck, Yejin Choi

**NeuroLogic A\*esque Decoding: Constrained Text Generation with Lookahead Heuristics**

*NAACL 2022 (Best Method Paper Award)*

Ximing Lu, Sean Welleck\*\*, Peter West\*\*, Liwei Jiang, Jungo Kasai, Daniel Khashabi, Ronan Le Bras, Lianhui Qin, Youngjae Yu, Rowan Zellers, Noah A Smith, Yejin Choi

**Probing Factually Grounded Content Transfer with Factual Ablation**

*Findings of ACL 2022*

Peter West, Chris Quirk, Michel Galley, Yejin Choi

**Generated Knowledge Prompting for Commonsense Reasoning**

*ACL 2022*

Jiacheng Liu, Alisa Liu, Ximing Lu, Sean Welleck, Peter West, Ronan Le Bras, Yejin Choi, Hannaneh Hajishirzi

**Symbolic Brittleness in Sequence Models: on Systematic Generalization in Symbolic Mathematics**

*AAAI 2021*

Sean Welleck, Peter West, Jize Cao, Yejin Choi

**Surface Form Competition: Why the Highest Probability Answer Isn't Always Right**

*EMNLP 2021*

Ari Holtzman\*, Peter West\*, Vered Shwartz, Yejin Choi, and Luke Zettlemoyer

**Reflective Decoding: Unsupervised Paraphrasing and Abductive Reasoning**

*ACL 2021*

Peter West, Ximing Lu, Ari Holtzman, Chandra Bhagavatula, Jena Hwang, and Yejin Choi

**Neurologic Decoding: (Un)supervised Neural Text Generation with Predicate Logic Constraints**

*NAACL 2021*

Ximing Lu, Peter West, Rowan Zellers, Ronan Le Bras, Chandra Bhagavatula, and Yejin Choi

**Unsupervised Commonsense Question Answering with Self-Talk**

*EMNLP 2020*

Vered Shwartz, Peter West, Ronan Le Bras, Chandra Bhagavatula, Yejin Choi

**Back to the Future: Unsupervised Backprop-based Decoding for Counterfactual and Abductive Commonsense Reasoning**

*EMNLP 2020*

Lianhui Qin, Vered Shwartz, Peter West, Chandra Bhagavatula, Jena Hwang, Ronan Le Bras, Antoine Bosselut, Yejin Choi

**BottleSum: Self-Supervised and Unsupervised Sentence Summarization using the Information Bottleneck Principle**

*EMNLP 2019*

Peter West, Ari Holtzman, Jan Buys, Yejin Choi

\* co-first author

\*\* co-second author

<b>PRESENTATIONS</b>	<i>Impossible Distillation (co-presented with Jaehun Jung)</i>	2023
	Microsoft Research Algorithms Group	
	<i>Making NLP Less Supervised with Natural Language Generators</i>	2022
	University of British Columbia NLP Group	
	<i>Making NLP Less Supervised with Natural Language Generators</i>	2022
	University of Pittsburgh NLP Group	
<i>Symbolic Knowledge Distillation: from General Language Models to Commonsense Models</i>	2022	
NAACL Oral Presentation		
<i>BottleSum: Unsupervised &amp; Self-supervised Sentence Summarization w/ Information Bottleneck Principle</i>	2020	
AISC ML Explained		
<i>BottleSum: Unsupervised &amp; Self-supervised Sentence Summarization w/ Information Bottleneck Principle</i>	2019	
EMNLP Oral Presentation		
<b>AWARDS &amp; HONORS</b>	EMNLP Outstanding Paper Award (Dialogue and Interactive Systems)	2023
	ACL Outstanding Paper Award	2023
	NAACL Best Methods Paper Award	2022
	NSERC Postgraduate Scholarship-PGSD (\$63,000 CAD over 3 years) at University of Washington	2018
	NSERC Undergraduate Student Research Award University of British Columbia	2016
	NSERC Undergraduate Student Research Award University of Alberta	2014, 2015
	Trek Excellence Scholarship University of British Columbia	2016, 2015, 2014
	Charles and Jane Banks Scholarship University of British Columbia	2014, 2015, 2016
<b>TEACHING</b>	<b>Teaching Assistant</b>	
	Natural Language Processing (Masters) University of Washington	2021
	Natural Language Processing (Undergraduate) University of Washington	2020
Intro to Algorithms (Undergraduate) University of Washington	2017	

	Functional and Logic Programming (Undergraduate) <i>University of British Columbia</i>	2016
	Models of Computation (Undergraduate) <i>University of British Columbia</i>	2016
<b>PREVIOUS POSITIONS</b>	<b>Research Scientist Intern</b> (multiple) 2019 - 2023 Allen Institute For Artificial Intelligence Seattle, WA <i>Hosts:</i> Ronan Le Bras, Chandra Bhagavatula, Yejin Choi (Mosaic Team) <i>Projects:</i> Reflective Decoding for Unsupervised Paraphrasing and Abductive Reasoning; Symbolic Knowledge Distillation; NovaCOMET: Open Commonsense Models	
	<b>Research Scientist Intern</b> 2020 Microsoft Research Seattle, WA <i>Hosts:</i> Chris Quirk, Michel Galley <i>Project:</i> Probing Factually Grounded Content Transfer with Factual Ablation	
	<b>Undergraduate Researcher</b> 2016 University of British Columbia Vancouver, BC, Canada <i>Hosts:</i> Sara Mostafavi <i>Project:</i> Multi-view Discriminative Gene Identification for Multi-class Setting	
	<b>Undergraduate Researcher</b> 2014, 2015 University of Alberta Edmonton, AB, Canada <i>Hosts:</i> Al Meldrum <i>Project:</i> Protein biosensing with fluorescent microcapillaries	
<b>PROGRAM COMMITTEE &amp; REVIEWING</b>	<b>Program Committee/Reviewer (Conference):</b>	
	ACL Rolling Review	2021-2023
	North American Association for Computational Linguistics (NAACL)	2019-2023
	Association for Computational Linguistics (ACL)	2021-2023
	Empirical Methods in Natural Language Processing (EMNLP)	2020-2023
	International Conference on Learning Representations (ICLR)	2022-2023
	Neural Information Processing Systems (NeurIPS)	2023
	AAAI Conference on Artificial Intelligence (AAAI)	2021-2023
	<b>Program Committee/Reviewer (Workshop)</b>	
	Blackbox NLP	2021 - 2023
<b>SERVICE</b>	Pre-Application Mentorship Service <i>University of Washington</i>	2021, 2022, 2023
	QueerInAI Grad App Program	2021, 2022
	NLP Seminar Organizer <i>University of Washington</i>	2022
	NLP Retreat Organizer <i>University of Washington</i>	2021