# March 23

Kenneth Church

## Conference papers

## https://aclanthology.org/events/acl-2022/#2022acl-long

**↑** up Proceedings of the 60th Annual Meeting of the Association for Computational Linguistics pdf (full) (Volume 1: Long Papers) bib (full) pdf bib Proceedings of the 60th Annual Meeting of the Association for Computational Linguistics (Volume 1: Long Papers) Smaranda Muresan | Preslav Nakov | Aline Villavicencio **AdapLeR: Speeding up Inference by Adaptive Length Reduction** pdf bib abs Ali Modarressi | Hosein Mohebbi | Mohammad Taher Pilehvar **Quantified Reproducibility Assessment of NLP Results** bib abs Anya Belz I Maja Popovic I Simon Mille bib abs Rare Tokens Degenerate All Tokens: Improving Neural Text Generation via Adaptive Gradient Gating for Rare Token Embeddings Sangwon Yu | Jongyoon Song | Heeseung Kim | Seongmin Lee | Woo-Jong Ryu | Sungroh Yoon **AlephBERT: Language Model Pre-training and Evaluation from Sub-Word to Sentence Level** bib abs Amit Seker | Elron Bandel | Dan Bareket | Idan Brusilovsky | Refael Greenfeld | Reut Tsarfaty bib abs Learning to Imagine: Integrating Counterfactual Thinking in Neural Discrete Reasoning Moxin Li | Fuli Feng | Hanwang Zhang | Xiangnan He | Fengbin Zhu | Tat-Seng Chua Domain Adaptation in Multilingual and Multi-Domain Monolingual Settings for Complex Word Identification

George-Eduard Zaharia | Răzvan-Alexandru Smădu | Dumitru Cercel | Mihai Dascalu

## Examples of Invited Talks

https://github.com/kwchurch/Benchmarking\_past\_present\_future/blob/master/README.md

## Video is different from an oral talk

- People can stop a video
- But it is hard to click on links in a video
- Video can be used as a teaser to encourage people to read the paper, or visit a github

### **Posters**

https://www.youtube.com/watch?v=W97N8wGShVg



Virtual: GatherTown

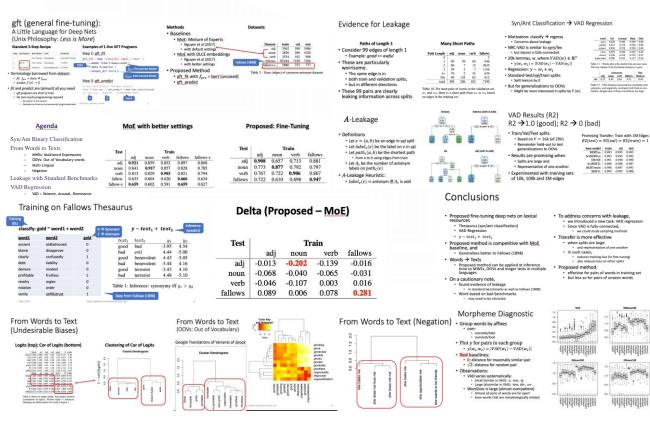


#### **Training on Lexical Resources**

Kenneth Church, Xingyu Cai, Yuchen Bian

Baidu, USA



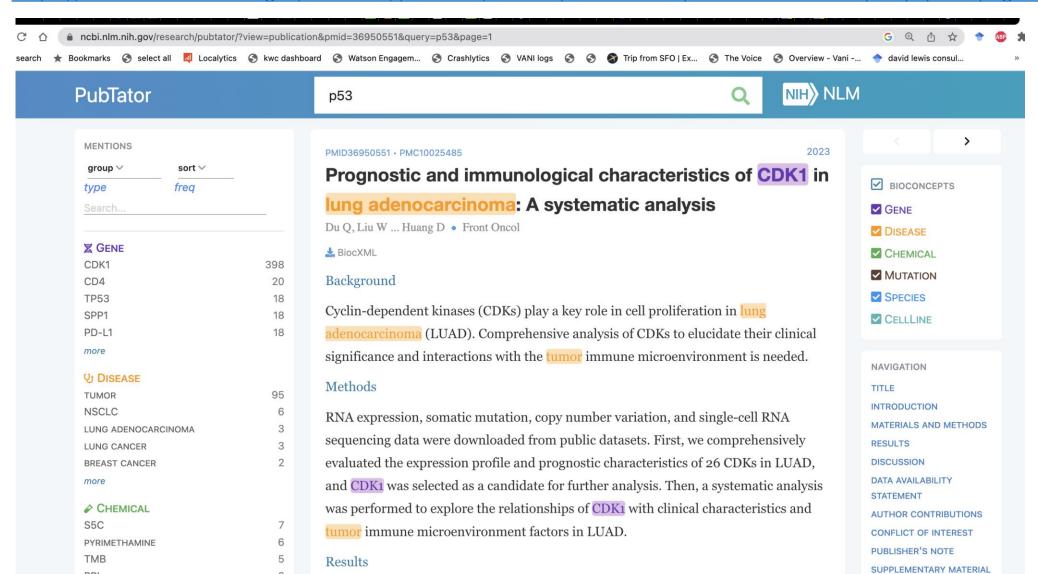


## Reading Group

- Good opportunity to learn about some new topic
  - Volunteer picks a small set of related papers (often just one paper)
  - Everyone should read the papers before the reading group
  - Volunteer presents paper
  - Group discusses (perhaps interactively)
- Presentation is different from a conference paper
  - Often more directed to interests of group
  - Often more balanced (critical)
    - How are the results in the paper relevant to needs of group
    - Opportunities to improve over results in paper
  - Often more focused on a small piece of paper
    - Such as a dataset, benchmark, etc.

### Pubtator

https://www.ncbi.nlm.nih.gov/research/pubtator/?view=publication&pmid=36950551&query=p53&page=1











#### Chih Hsuan Wei

FOLLOW

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Natural language processing Machine learning Deep learning BioNLP

TITLE	CITED BY	YEAR
BioCreative V CDR task corpus: a resource for chemical disease relation extraction J Li, Y Sun, RJ Johnson, D Sciaky, CH Wei, R Leaman, AP Davis, Database 2016	541	2016
PubTator: a web-based text mining tool for assisting biocuration CH Wei, HY Kao, Z Lu Nucleic acids research 41 (W1), W518-W522	537	2013
Assessing the state of the art in biomedical relation extraction: overview of the BioCreative V chemical-disease relation (CDR) task CH Wei, Y Peng, R Leaman, AP Davis, CJ Mattingly, J Li, TC Wiegers, Database 2016, baw032	353	2016
tmChem: a high performance approach for chemical named entity recognition and normalization R Leaman, CH Wei, Z Lu Journal of cheminformatics 7 (1), S3	272	2015

#### https://ftp.ncbi.nlm.nih.gov/pub/lu/PubTatorCentral/

Cited by		VIEW ALL
	All	Since 2018
Citations	4178	2934
h-index	29	25
i10-index	44	39
		740
		555

#### Index of /pub/lu/PubTatorCentral

Name	Last modifi	Led	Size	
Parent Directory			_	
PubTatorCentral_BioCXML/	2022-01-09	14:06	-	
tmp/	2021-08-13	03:39	_	
AvailablePMIDsinPubTator.txt	2023-03-22	21:44	294M	
README.txt	2022-05-30	18:37	6.1K	
bioconcepts2pubtatorcentral.gz	2022-12-17	23:54	5.1G	
bioconcepts2pubtatorcentral.offset.gz	2023-02-17	06:05	30G	
bioconcepts2pubtatorcentral.offset.sample	2022-04-11	13:56	30K	
bioconcepts2pubtatorcentral.sample	2019-08-19	10:32	50K	
cellline2pubtatorcentral.gz	2022-12-17	23:56	40M	
cellline2pubtatorcentral.sample	2019-07-29	11:00	44K	
<pre>chemical2pubtatorcentral.gz</pre>	2022-12-17	23:55	1.4G	
<pre>chemical2pubtatorcentral.sample</pre>	2019-07-29	11:00	52K	
<u>disease2pubtatorcentral.gz</u>	2022-12-17	23:55	1.8G	
disease2pubtatorcentral.sample	2019-07-29	11:00	57K	
<pre>gene2pubtatorcentral.gz</pre>	2022-12-17	23:56	730M	
gene2pubtatorcentral.sample	2019-07-29	11:00	42K	
mutation2pubtatorcentral.gz	2022-12-17	23:56	61M	
mutation2pubtatorcentral.sample	2019-07-29	11:00	42K	
<pre>species2pubtatorcentral.gz</pre>	2022-12-17	23:56	527M	
<pre>species2pubtatorcentral.sample</pre>	2019-07-29	11:00	44K	

**HHS Vulnerability Disclosure** 

## Point of Pubtator Example

- Many people are interested in NER
  - Named entity recognition
- Practical applications?
  - Not so clear, but pubtator looks like it should be useful
  - Still, not so obvious that this is a useful application
    - BERT has many more citations (and more awareness) than pubtator
- Accessibility
  - Pubtator is super-open
  - Supports both ad hoc queries as well as bulk download
- Community building: encourage others to join in on the fun

## What is NER (Named Entity Recognition)?

