## **Patrick Xia**

Personal Information	paxia@cs.jhu.edu {973} 960-5954 github.com/pitrack   cs.jhu.edu/~paxia	Hackerman 226 3400 N Charles Street Baltimore, MD 21218
EDUCATION	Johns Hopkins University  Center of Language and Speech Processing Advised by: Benjamin Van Durme PhD, Computer Science  M.S.E., Computer Science	2018
	Carnegie Mellon University  B.S. Computer Science, B.S. Mathematics, Minor in Language Technologies	2016
SELECTED PUBLICATIONS	P. Xia, S. Wu, B. Van Durme. Which *BERT? A Survey Organizing Contextualized Encoders. EMNLP 2020.	
	P. Xia, J. Sedoc, B. Van Durme. Incremental Neural Coreference Resolution In Constant. Memory EMNLP 2020.	
	S. Ebner*, <u>P. Xia*</u> , R. Culkin, K. Rawlins, B. Van Durme Multi-Sentence Argument Linking. ACL 2020 N. Kim, R. Patel, A. Poliak, <u>P. Xia</u> , A. Wang, R T. McCoy, I. Tenney, A. Ross, T. Linzen, B. Van Durme, S. Bowman	
	and E. Pavlick. Probing What Different NLP Tasks Teach Machines about Functi *SEM 2019 Best Paper Award	
	I. Tenney, <u>P. Xia</u> , B. Chen, A. Wang, A. Poliak, R T. McCoy, N. Kim, B. Van Durme, S. E What do you learn from context? Probing for sentence structure in contextualiz ICLR 2019	
	P. Xia and D. Yarowsky. Deriving Consensus for Multi-Parallel Corpora: an English Bible Study. IJCNLP 2017	
Ongoing Projects	Efficient Information Extraction → scaling up models for long documents  Coreference Resolution → surveying and benchmarking datasets	
Work	Research Intern, Google  • Grounding noun phrases to knowledge bases using weak supervision	Summer 2019
	Software Engineering Intern, Facebook  • Improved parser and semantic analyzer for an internal query language  • Created monitoring service for backend data pipelines	Summer 2015
	Software Development Engineer Intern, Microsoft  o Designed and implemented new UX features in Microsoft Office	Summer 2014
UNPUBLISHED	Translating into Morphologically Rich Languages with Word-level LSTMs (2016) Senior Honors Thesis (advised by C. Dyer)  • Predicting inflection based on word and character level models of context Annotating Character Relationships in Literary Texts (2015)	
	P. Massey, <u>P. Xia</u> , D. Bamman, NA Smith  • Classified literary relationships in fiction; process described in arXiv paper	
Teaching	Teaching Assistant  O Declarative Methods  Great Theoretical Ideas of Computer Science (15-251)  Parallel and Sequential Data Structures and Algorithms (15-210)  Principles of Imperative Programming (15-122)	JHU; Spring 2017 Spring 2015 - Spring 2016 CMU; Fall 2014 CMU; Fall 2013
OTHER	Python (TensorFlow and PyTorch), C++/C, AllenNLP, Transformers U.S. Permanent Resident  Familiar with Mandarin Chinese and French	

Puzzlehunt writing & organizing: PuzzlehuntCMU (2012-2017) and Galactic Puzzlehunt (2017 - present)

 $\circ$  Ireland  $\to$  Australia (citizen)  $\to$  Hong Kong  $\to$  US