Jonathan K. Kummerfeld

Contact E-mail: jkummerf@umich.edu Information Website: http://www.jkk.name

Research Natural Language Processing: Dialogue, Executable Semantic Parsing

Interests Crowdsourcing: Hybrid Intelligence Systems

Current Postdoctoral Research Fellow September 2016 – Present

Computer Science Engineering, University of Michigan

U.S. Permanent Resident (Green Card Holder), Australian Citizen

Education University of California, Berkeley, Berkeley, CA

Ph.D. in Computer Science, August 2016

Advisor: Dan Klein

University of Sydney, Sydney, Australia

B.S. in Computer Science, with University Medal, May 2010

Advisor: James R. Curran

Publications: 19 papers in TACL, ACL, NAACL and EMNLP (top venues in NLP)

Overview Google Scholar metrics:

> H-index: 18 H5-index: 15

Total Citations: 990

In the list below, my name is bold and the names of students I co-advised are underlined (including graduates, undergraduates, company employees, and in-

terns).

Conference **Proceedings**

Publications: C. Welch, J. K. Kummerfeld, V. Perez-Rosas, R. Mihalcea. 2020. Compositional Demographic Word Embeddings. Empirical Methods in Natural Language Processing (EMNLP).

> C. Welch, R. Mihalcea, J. K. Kummerfeld. 2020. Improving Low Compute Language Modeling with In-Domain Embedding Initialisation. Empirical Methods in Natural Language Processing (EMNLP).

> S. Larson, A. Zheng, A. Mahendran, R. Tekriwal, A. Cheung, E. Guldan, K. Leach, J. K. Kummerfeld. 2020. Iterative Feature Mining for Constraint-Based Data Collection to Increase Data Diversity and Model Robustness. Empirical Methods in Natural Language Processing (EMNLP).

> Y. Jiang, H. Zhu, J. K. Kummerfeld, Y. Li, W. Lasecki. 2020. A Novel Workflow for Accurately and Efficiently Crowdsourcing Predicate Senses and Argument Labels. Findings of Empirical Methods in Natural Language Processing (Findings of EMNLP).

- <u>C. Welch</u>, **J. K. Kummerfeld**, V. Perez-Rosas, R. Mihalcea. 2020. Exploring the Value of Personalized Word Embeddings. *International Conference on Computational Linguistics (CoLing)*.
- S. Larson, A. Cheung, A. Mahendran, K. Leach, J. K. Kummerfeld. 2020. Inconsistencies in Crowdsourced Slot-Filling Annotations: A Typology and Identification Methods. *International Conference on Computational Linguistics (CoLing)*.
- J. S. Huffaker, J. K. Kummerfeld, W. S. Lasecki, M. S. Ackerman. 2020. Crowdsourced Detection of Emotionally Manipulative Language. *Conference on Human Factors in Computing Systems (CHI)*.
- P. Paquette, Y. Lu, S. Bocco, M. O. Smith, S. Ortiz-Gagné, **J. K. Kummerfeld**, J. Pineau, S. Singh, A. Courville. 2019. No-Press Diplomacy: Modeling Multi-Agent Gameplay. *Advances in Neural Information Processing Systems (NeurIPS)*.
- S. Larson, A. Mahendran, J. J. Peper, C. Clarke, A. Lee, P. Hill, J. K. Kummerfeld, K. Leach, M. A. Laurenzano, L. Tang and J. Mars. 2019. An Evaluation for Intent Classification and Out-of-Scope Prediction. *Empirical Methods in Natural Language Processing (EMNLP)*.
- **J. K. Kummerfeld**, S. R. Gouravajhala, <u>J. Peper</u>, <u>V. Athreya</u>, C. Gunasekara, J. Ganhotra, S. S. Patel, L. Polymenakos, W. S. Lasecki. 2019. A Large-Scale Corpus for Conversation Disentanglement. *Association for Computational Linguistics (ACL)*.
- J. K. Kummerfeld. 2019. SLATE: A Super-Lightweight Annotation Tool for Experts. Association for Computational Linguistics: Demonstrations (ACL: Demo).
- S. Larson, A. Mahendran, A. Lee, J. K. Kummerfeld, P. Hill, M. Laurenzano, J. Hauswald, L. Tang, J. Mars. 2019. Outlier Detection for Improved Data Quality and Diversity in Dialog Systems. *North American Chapter of the Association for Computational Linguistics (NAACL)*.
- C. Welch, V. Perez-Rosas, J. K. Kummerfeld, R. Mihalcea. 2019. Look Who's Talking: Inferring Speaker Attributes from Personal Longitudinal Dialog. Computational Linguistics and Intelligent Text Processing (CICLing). Best Student Paper
- C. Finegan-Dollak, J. K. Kummerfeld, L. Zhang, K. R. D. Ramanathan, S. Sadasivam, R. Zhang, D. Radev. 2018. Improving Text-to-SQL Evaluation Methodology. Association for Computational Linguistics (ACL).
- <u>L. Burdick</u>, **J. K. Kummerfeld**, R. Mihalcea. 2018. Factors Influencing the Surprising Instability of Word Embeddings. *North American Chapter of the Association for Computational Linguistics (NAACL)*.
- Y. Jiang, C. Finegan-Dollak, J. K. Kummerfeld, W. Lasecki. 2018. Effective Crowdsourcing for a New Type of Summarization Task. *North American Chapter of the Association for Computational Linguistics (NAACL)*.

- Y. Kang, Y. Zhang, J. K. Kummerfeld, P. Hill, J. Hauswald, M. A. Laurenzano, L. Tang, J. Mars. 2018. Data Collection for Dialogue System: A Startup Perspective. North American Chapter of the Association for Computational Linguistics (NAACL: Industry Track).
- <u>C. Welch</u>, **J. K. Kummerfeld**, S. Feng, R. Mihalcea. 2018. World Knowledge for Semantic Parsing with Abstract Meaning Representation. *Language Resources and Evaluation Conference (LREC)*.
- G. Durrett, **J. K. Kummerfeld**, T. Berg-Kirkpatrick, R. S. Portnoff, S. Afroz, D. McCoy, K. Levchenko, V. Paxson. 2017. Identifying Products in Online Cybercrime Marketplaces: A Dataset for Fine-grained Domain Adaptation. *Empirical Methods in Natural Language Processing (EMNLP)*.
- Y. Jiang, J. K. Kummerfeld, W. S. Laseck. 2017. Understanding Task Design Trade-offs in Crowdsourced Paraphrase Collection. Association for Computational Linguistics (ACL).
- R. S. Portnoff, S. Afroz, G. Durrett, **J. K. Kummerfeld**, T. Berg-Kirkpatrick, D. McCoy, K. Levchenko, V. Paxson. 2017. Tools for Automated Analysis of Cybercriminal Markets. *International World Wide Web Conferenc (WWW)*.
- **J. K. Kummerfeld**, T. Berg-Kirkpatrick, D. Klein. 2015. An Empirical Analysis of Optimization for Max-Margin NLP. *Empirical Methods in Natural Language Processing (EMNLP)*.
- **J. K. Kummerfeld**, D. Klein. 2013. Error-Driven Analysis of Challenges in Coreference Resolution. *Empirical Methods in Natural Language Processing (EMNLP)*.
- **J. K. Kummerfeld**, D. Tse, J. R. Curran, D. Klein. 2013. An Empirical Examination of Challenges in Chinese Parsing. *Association for Computational Linguistics (ACL)*.
- **J. K. Kummerfeld**, D. Hall, J. R. Curran, D. Klein. 2012. Parser Showdown at the Wall Street Corral: An Empirical Investigation of Error Types in Parser Output. *Empirical Methods in Natural Language Processing (EMNLP)*.
- **J. K. Kummerfeld**, D. Klein, J. R. Curran. 2012. Robust Conversion of CCG Derivations to Phrase Structure Trees. *Association for Computational Linguistics* (ACL).
- **J. K. Kummerfeld**, M. Bansal, D. Burkett, D. Klein. 2011. Mention Detection: Heuristics for the OntoNotes annotations. *Conference on Natural Language Learning Shared Task (CoNLL Shared Task)*.
- **J. K. Kummerfeld**, J. Roesner, T. Dawborn, J. Haggerty, J. Curran, S. Clarke. 2010. Faster Parsing by Supertagger Adaptation. *Association for Computational Linguistics (ACL)*.

M. Honnibal, J. K. Kummerfeld, J. R. Curran. 2010. Morphological Analysis Can Improve a CCG Parser for English. International Conference on Computational Linguistics (CoLing).

Journals

- Publications: L. F. D'Haro, K. Yoshino, C. Hori, T. K. Marks, L. Polymenakos, J. K. Kummerfeld, M. Galley, X. Gao. 2020. Overview of the seventh Dialog System Technology Challenge: DSTC7. Computer Speech & Language (CSL).
 - **J. K. Kummerfeld**, D. Klein. 2017. Parsing with Traces: An $O(n^4)$ Algorithm and a Structural Representation. Transactions of the Association for Computational Linguistics (TACL).
 - V. A. Moss, N. M. McClure-Griffiths, T. Murphy, D. J. Pisano, J. K. Kummerfeld, J. R. Curran. 2013. High-velocity Clouds in the Galactic All Sky Survey. I. Catalog. The Astrophysical Journal Supplement Series.
 - R. Candelier, A. Widmer-Cooper, J. K. Kummerfeld, O. Dauchot, G. Biroli, P. Harrowell, D. R Reichman. 2010. Spatiotemporal Hierarchy of Relaxation Events, Dynamical Heterogeneities, and Structural Reorganization in a Supercooled Liquid. Physical Review Letters (PRL).
 - J. K. Kummerfeld, T. S. Hudson, P. Harrowell. 2008. The Densest Packing of AB Binary Hard-Sphere Homogeneous Compounds across all Size Ratios. The Journal of Physical Chemistry B.

Workshops

- Publications: J. K. Kummerfeld. 2020. Qualification Labour: A Fair Wage Isn't Enough if Workers Need to Do 5,000 Low Paid Tasks to Qualify for Your Task. AAAI Conference on Human Computation and Crowdsourcing (HComp WIP).
 - C. Gunasekara, J. K. Kummerfeld, L. Lastras, W. S. Lasecki. 2020. NOESIS II: Predicting Responses, Identifying Success, and Managing Complexity in Task-Oriented Dialogue. Dialogue System Technology Challenges (AAAI Wokshop).
 - J. S. Huffaker, J. K. Kummerfeld, W. S. Lasecki, M. S. Ackerman. 2019. Training Data Voids: Novel Attacks Against NLP Content Moderation. Work: Mapping the Future of Moderation Research (CSCW Workshop).
 - S. Kim, M. Galley, C. Gunasekara, S. Lee, A. Atkinson, B. Peng, H. Schulz, J. Gao, J. Li, M. Adada, M. Huang, L. Lastras, J. K. Kummerfeld, W. S. Lasecki, C. Hori, A. Cherian, T. K. Marks, A. Rastogi, X. Zang, S. Sunkara, R. Gupta. The Eighth Dialog System Technology Challenge. Conversational AI (NeurIPS Workshop).
 - C. Gunasekara, J. K. Kummerfeld, L. Polymenakos, W. S. Lasecki. 2019. DSTC7 Task 1: Noetic End-to-End Response Selection. Dialog System Technology Challenges (AAAI Workshop).
 - J. K. Kummerfeld, J. Roesner, J. R. Curran. 2009. Faster Parsing and Supertagging Model Estimation. Australasian Language Technology Association (ALTA).

	Association (ALTA).	astratustum Danyauge Technology	
Grants	Bloomberg Data Science Research Grant Co-PI on grant to develop adaptive annotation a	2019	
	Michigan Institute for Data Science Music Co-PI on grant to develop models that map text	c Initiative 2018	
	Allen Institute for AI Key Scientific Chall Unrestricted funding to support research		
Awards	Outstanding Postdoctoral Fellow Award	2018	
	For excellence in research, mentorship, teaching, Chair's Special Award	leadership, and service 2013	
	For services to the EECS department during stu		
	Outstanding Graduate Student Instructor Award University wide award in recognition of exceptional achievements as a teacher		
	General Sir John Monash Award	2009	
	"Australia's most prestigious postgraduate schol University Medal in Computer Science	arships" 2009	
	For outstanding results, awarded at the discretic	on of the university senate	
Employment	Postdoctoral Research Fellow		
	University of Michigan	September 21st, 2016 – Present	
	Consultant / Technical Adviser		
	Naming Matters Clinc	May 2015 – Present January 2017 – February 2020	
	WriteLab (acquired by Chegg)	March 2014 – May 2018	
	Techbridge	September 2013 – May 2014	
	Intern		
	Google Research – Mountain View, NLP team Google – Sydney, Infrastructure team	May - August 2012 December 2007 - February 2008	
		December 2001 Testuary 2000	
	Research Assistant U. Sydney, School of Information Technologies, 1	Prof. Kay 2010	
	U. Sydney, School of Physics, Dr. Murphy	2010	
	U. Sydney, School of Chemistry, Prof. Harrowell U. Sydney, School of Letters, Art and Media, Dr.		
		,	
Teaching, Mentoring,	Instructor of Record Artificial Intelligence, Berkeley	Summer 2014	
•	Co-taught upper division course: gave lectures, and Evaluation: 6.3 / 7 (Median in CS is 5.7, and on	managed TAs, and wrote exams.	
	Evaluation, 0.9 / 1 (Median in Ob is 9.1, and of	my 1070 mave a rading above 0.3)	

J. K. Kummerfeld, J. R. Curran. 2008. Classification of Verb Particle Constructions with the Google Web1T Corpus. *Australasian Language Technology*

Teaching Assistant

Artificial Intelligence, Berkeley Fall 2011

Held sections and office hours, prepared assignments, exams and sections.

Evaluation: 4.6 / 5 (Only 11% of scores are public, of those the median is 4.6)

Artificial Intelligence (Advanced), Sydney Fall 2009

Held sections (third year elective Computer Science course).

Informatics (Advanced), Sydney Fall 2009

Held sections and graded assignments (first year core Computer Science course).

Guest Lecturer

Conversational AI, Michigan	Spring 2020
STEM Posse, Michigan	Summer 2019
The Anatomy of Natural Language Processing Systems, Michigan	Winter 2018
The Beauty and Joy of Computing, Berkeley	Summer 2014
Applied Natural Language Processing, Berkeley	Fall 2013
Proseminar in the Digital Humanities, Berkeley	Spring 2013

Talks

University of California, Berkeley, NLP Seminar	February 2018
Midwest Speech and Language Days & CL Colloquium	May 2017, May 2018
University of Macquarie, Centre for Language Tech.	June 2016, August 2017
Sydney Humans, Language, Technology MeetUp	May 2016, August 2017
University of Sydney	May 2016
Information Sciences Institute, Natural Language Semina	ar March 2016
CommonCrawl, Big Open Data Hackathon	May 2014
Cambridge Computer Laboratory	August 2013
Berkeley Syntax Circle	December 2012

Undergraduate & Masters Mentoring

endergraduate & Masters Memoring	
Note, this list only includes students I was the primary mentor for	
Joseph Peper (transfer), Research Opportunity Program	2016-2017
Thomas Searle (1st year), Research Opportunity Program	2016-2017
Hyun A. Chung (2nd year), Research Opportunity Program	2017-2018
Orion Cleaver (2nd year), Research Opportunity Program	2017-2018
Alexandra Wu (2nd year), Explore CS Research	Spring 2019
Yuyi Qu (2nd year), Explore CS Research	Spring 2019
Yuntian Zhao (2nd year), Explore CS Research	Spring 2020
Prateek Jain (4th year), Explore CS Research	Spring 2020
Olivia Garrahan (1st year), CROMA Lab	2018-2019
Sophia He (2nd year), CROMA Lab	Fall 2018
Varun Kutirakulam (2nd year), CROMA Lab	Fall 2018
Jack Bandon (3rd year), CROMA Lab	Fall 2019
Utkarsh Mehta (3rd year), CROMA Lab	Fall 2019
Kejia Yang (Masters), CROMA Lab	2018-2019
Andrew Vernier (4th year), CROMA Lab	2019-2020
Yiming Shi (4th year), CROMA Lab	2019-2020
Zihan Li (Masters), CROMA Lab	Fall 2019
Vignesh Athreya (Masters), Project Sapphire	Spring 2017
Jiyong Shim (3rd year), Berkeley AI Lab	2013-2014
Philip Su (3rd year), Intern at Naming Matters	Summer 2015

Gave lectures, prepared exams and autograders, prepared labs. National Computer Science School Led a group of 16 students, who learned python and built a search engine.	
Led a group of 16 students, who learned python and built a search engine.	
	2010
Computational Linguistics Olympiads 2013, 2014, 2015,	2016
Set problems for the competition.	2010
bet problems for the competition.	
A Clasia	
Area Chair	
ACL: Association for Computational Linguistics	2020
Computational Social Science and Social Media	2020
Resources and Evaluation	2021
DSTC: Dialog System Technology Challenges, Task Organiser 2018,	2019
University Internal	0001
, 0	-2021
Hiring Comittee for Research Investigator, Michigan Medical School	2017
Graduate Admissions Committee, Michigan Artificial Intelligence	2017
Graduate Admissions Committee, Berkeley Artificial Intelligence	2015
President, Berkeley Computer Science Graduate Student Association 2012-	-2013
Thesis Committee	2020
Laura (Wendlandt) Burdick Michigan,	
Sai R. Gouravajhala Michigan,	
Janarthanan Rajendran Michigan,	2020
Journal Reviewer	
CL: Computational Linguistics 2020,	2021
CL: Computational Linguistics 2020, TACL: Transactions of the Assoc. for Computational Linguistics 2016, 2020-	2021 -2022
CL: Computational Linguistics 2020, TACL: Transactions of the Assoc. for Computational Linguistics 2016, 2020-JAIR: Journal of Artificial Intelligence Research	2021 -2022 2017
CL: Computational Linguistics 2020, TACL: Transactions of the Assoc. for Computational Linguistics 2016, 2020-	2021 -2022 2017
CL: Computational Linguistics 2020, TACL: Transactions of the Assoc. for Computational Linguistics 2016, 2020-JAIR: Journal of Artificial Intelligence Research CSL: Computer Speech & Language 2017,	2021 -2022 2017
CL: Computational Linguistics 2020, TACL: Transactions of the Assoc. for Computational Linguistics 2016, 2020. JAIR: Journal of Artificial Intelligence Research CSL: Computer Speech & Language 2017, Program Committee - Conferences	2021 -2022 2017 2019
CL: Computational Linguistics 2020, TACL: Transactions of the Assoc. for Computational Linguistics 2016, 2020- JAIR: Journal of Artificial Intelligence Research CSL: Computer Speech & Language 2017, Program Committee - Conferences ACL: Assoc. for Computational Linguistics 2014 (2nd), 2016, 2017, 2018,	2021 -2022 2017 2019
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2007 – 2010

High School Mentoring / Outreach

Australian Informatics Olympiad

Professional Service

Program Committee - Workshops

SRW: Student Research, ACL / NAACL 2014, 2015, 2016, 2018, 20	019, 2020,
2021 (x2)	
IWPT: International Conference on Parsing Technologies	2020
EthNLP: Ethics in NLP	2017
RepEval: Evaluating Vector Space Representations for NLP	2019
NLP-CSS: NLP and Computational Social Science 2	2019, 2020
W-NUT: Noisy User-generated Text 2018, 2	2019, 2020
Gen-Deep: New Forms of Generalization in Deep Learning and NLP	2018
DeepLo: Deep Learning for Low Resource NLP	2019
IntEx-SemPar: Interactive and Executable Semantic Parsing	2020
DaSH-LA: Data Science with Human-in-the-Loop: Language Advances	2021

Other Reviewer

Tapia Conference Poster Reviewer	2020
Tapia Doctoral Consortium Judge	2020

Mentor

SRW: Student Research Workshop, ACL / NAACL 2019, 2020

References

Dan Klein

Professor, University of California, Berkeley klein@cs.berkeley.edu

Rada Mihalcea

Professor, University of Michigan mihalcea@umich.edu

Dragomir R. Radev

Professor, Yale University dragomir.radev@yale.edu

Jason Eisner

Professor, Johns Hopkins University jason@cs.jhu.edu