

Kent Kai-hsiung Chang

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RESEARCH INTERESTS natural language processing (NLP), deep representation learning; dialogue understanding and generation, video understanding, LLM evaluation; computational humanities

EDUCATION

University of California, Berkeley ■ Ph.D. student in Information Science *Berkeley, CA* (2020–expected 2026)

- Advisor: Prof. David Bamman at the School of Information & Berkeley Artificial Intelligence Research
- Coursework in natural language processing, HCI, machine learning, deep learning, and data science

University College London ■ M.S. in Digital Humanities *London, England* (2017–2018)

Thesis: “Literary Modeling Queer Modernity, 1860–1922: Digital Humanities between Literary Studies and Data Science” (advised by Dr. Julianne Nyhan & Dr. Luke Dickens)

National Taiwan University ■ B.A. in English (literature, linguistics, translation) *Taipei, Taiwan* (2014–2017)

University of Taipei ■ B.A. programs in TESOL and Computer Science *Taipei, Taiwan* (2011–2014, transferred)

SELECTED WORK EXPERIENCE

Graduate student researcher and instructor, UC Berkeley School of Information *Summer 2022–present*
researcher: Multilingual BookNLP (Spring 2024, Summer 2021 ff.); **instructor**: Applied Natural Language Processing (Fall 2024, Fall 2023); Natural Language Processing (Spring 2023); Information Organization and Retrieval (Fall 2022)

Predoctoral research fellow (advised by Prof. Simon DeDeo) *December 2018–October 2020*
 Laboratory for Social Minds, Social and Decision Sciences, Carnegie Mellon University – *publication*: [1]

Research assistant and researcher (advised by Prof. Richard Jean So) *July 2018–February 2019*
 .txtLAB, McGill University and HathiTrust Research Center – *publications*: [[2], *, †]

Research assistant (advised by Prof. Ted Underwood) *October–November 2018*
 School of Information Sciences, University of Illinois at Urbana-Champaign – *publication*: [4]

PUBLICATIONS

REFEREED CONFERENCE PAPERS

- [8] Kent K. Chang, Anna Ho, David Bamman (forthcoming 2024), “Subversive Characters and Stereotyping Readers: Queering Relation Extraction to Characterize Relational Deviance in TV Dialogues.” CHR 2024.
- [7] David Bamman, Kent K. Chang, Li Lucy, Naitian Zhou (forthcoming 2024), “On Classification with Large Language Models in Cultural Analytics” CHR 2024 [Computational Humanities Research].
- [6] Kent K. Chang, Mackenzie Cramer, Sandeep Soni, and David Bamman (2023), “Speak, Memory: An Archaeology of Books Known to ChatGPT/GPT-4.” EMNLP 2023. [Empirical Methods in Natural Language Processing]
- [5] Kent K. Chang, Danica Chen, and David Bamman (2023), “Dramatic Conversation Disentanglement.” ACL 2023 Findings. [Association for Computational Linguistics]
- [4] Kent Chang, Yuerong Hu, Wenyi Shang, Aniruddha Sharma, Shubhangi Singhal, Ted Underwood, Jessica Witte, and Peizhen Wu (2020), “Book Reviews and the Consolidation of Genre.” DH 2020.

REFEREED BOOK CHAPTERS

- [3] Kent K. Chang (2023), “The Queer Gap in Cultural Analytics.” In Matthew K. Gold and Lauren Klein (eds.), *Debates in Digital Humanities 2023*. University of Minnesota Press.

REFEREED JOURNAL ARTICLES

- [2] Michelle Moravec and Kent K. Chang (2021), “Feminist Bestsellers: A Digital History of 1970s Feminism.” *Post45*.
 [1] Kent K. Chang and Simon DeDeo (2020), “Divergence and the Complexity of Difference in Text and Culture.” *Journal of Cultural Analytics*.

OTHER COLLABORATIVE PROJECTS

- * Anna Shechtman (2021), “Command of Media’s Metaphors.” *Critical Inquiry* 47 (4): 644–674.
 † Anna Shechtman (2020), “The Medium Concept.” *Representations* 150 (1): 61–90.

SELECTED PRESENTATIONS

“Building and Controlling Large Language Models” (Guest lecture for INFO 251 Applied Machine Learning). School of Information, UC Berkeley, United Staes. April 2 and 9, 2024.

“Long-range, Long-form Video Understanding for Cultural Analysis.” Literary Lab, Stanford University. California, United States. February 10, 2024.

“Speak, Memory: An Archaeology of Books Known to ChatGPT/GPT-4.” Poster presentation at EMNLP 2023 (main conference). Santosa, Singapore. December 10, 2023.

“Dialogue as Data” (Guest lecture for QTM 340 Approaches to Data Science with Text). Virtual (Quantitative Theory and Methods department, Emory University). November 7, 2023.

“Dramatic Conversation Disentanglement.” Poster presentation at the 5th Workshop on Narrative Understanding (co-located with ACL 2023). Toronto, Canada. July 14, 2023.

SELECTED SKILLS

PyTorch, scikit-learn, NumPy, pandas, matplotlib/seaborn; spaCy, NLTK, Accelerator, DeepSpeed; Slurm

NVIDIA Deep Learning Institute certificates in “Data Parallelism: How to Train Deep Learning Models on Multiple GPUs” and “Model Parallelism: Building and Deploying Large Neural Networks”

SELECTED SERVICES

Reviewer: DH 2020, ACL 2023, LREC 2024

Program committee: EMNLP 2023 Industry Track; Workshop for Narrative Understanding 2024, 2025; CHR 2024

SELECTED AWARDS

Outstanding Graduate Student Instructor	(awarded spring 2024)
Paul Fasana LGBTQ Studies Fellowship	(\$5,000, spring 2024)
Berkeley School of Information Summer Grant	(\$5,982, summer 2021)
Berkeley Artificial Intelligence Research Lab First-year Ph.D. Stipend	(\$5,000, fall 2020)
Berkeley Fellowship for Graduate Study	(awarded to top Ph.D. applicants)