

Kent Kai-hsiung Chang

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<https://kentkc.org/>

RESEARCH INTERESTS natural language processing, cultural analytics, literary and cultural studies

EDUCATION

University of California, Berkeley 2020–present

Ph.D. student in Information Management and Systems (School of Information)

- Advised by Prof. David Bamman
- Supported by the Berkeley Fellowship for Graduate Study (2020–present)

UCL (University College London) 2017–2018

M.S. in Digital Humanities

- *thesis*: “Literary Modelling Queer Modernity, 1860–1922: Digital Humanities between Literary Studies and Data Science”—advisor: Dr. Julianne Nyhan and Dr. Luke Dickens

National Taiwan University 2014–2017

B.A. in Foreign Languages and Literatures (literatures in English, linguistics, and translation)

University of Taipei 2011–2014

B.A. program in English Instruction (TESOL), double major in Computer Science; transferred to National Taiwan University in September 2014

PROFESSIONAL APPOINTMENT

Predocctoral research fellow December 2018–October 2020

Laboratory for Social Minds, Social and Decision Sciences, Carnegie Mellon University
 (advised by Prof. Simon DeDeo)

- leading projects focused on the quantitative analysis of queer literature and culture

PUBLICATIONS

“Divergence and the Complexity of Difference in Text and Culture.” Kent K. Chang and Simon DeDeo. *Journal of Cultural Analytics*, October 2020. doi:10.22148/001C.17585.

IN PROGRESS

“The Queer Gap in Cultural Analytics.” Kent K. Chang. Book chapter (peer-reviewed); forthcoming in *Debates in Digital Humanities 2022*, edited by Matthew K. Gold and Lauren Klein. University of Minnesota Press, 2022. Projected length: 4,000 words.

“Grammars of Relating.” Kent K. Chang and Simon DeDeo. Journal article in progress, 2021. Projected length: 7,000 words.

“Book Reviews and the Consolidation of Genre.” Kent Chang, Yuerong Hu, Wenyi Shang, Aniruddha Sharma, Shubhangi Singhal, Ted Underwood, Jessica Witte, Peizhen Wu. 2018–2020.

PysFIHMM. Kent Kai-hsiung Chang and Simon DeDeo. Python package for finite-state machine analysis, wrapping the C library of sFIHMM. 2019–present.

PysFIHMM Encoder. Kent Kai-hsiung Chang. Web app to assist generating time series of play scripts and relevant metadata. 2019–present.

DIGITAL PROJECTS

“Mapping Broadway.” Kent Kai-hsiung Chang. <http://mappingbroadway.kentchang.com>. Website, 2018.

“T. S. Eliot as a Family Man.” Kent Kai-hsiung Chang. <http://kentchang.com/eliot/>. Website, 2018.

SELECTED RESEARCH EXPERIENCE

Research assistant and researcher July 2018–February 2019

.txtLAB, McGill University and HathiTrust Research Center
(advised by Prof. Richard Jean So)

- parsed and cleaned OCR'd magazine journal texts of HathiTrust Research Center
- assisted semantic history analysis with Word2Vec

Research assistant October–November 2018

School of Information Sciences, University of Illinois at Urbana-Champaign
(advised by Prof. Ted Underwood)

- extracted data from periodicals in HathiTrust Research Center
- assisted topic modeling novel review data

SELECTED PRESENTATIONS

INVITED TALKS

“How to Do Queer Cultural Analytics.” World Views and Mythologies, Ancient and Modern Conference, South Methodist University, New Mexico, United States. 4 July 2019.

“Marriage, Meditation, and Mediation.” Natural Language Processing Special Interest Group, the Alan Turing Institute, London, United Kingdom. 27 September 2018.

CAMPUS AND DEPARTMENTAL TALKS

“The Queer Use of Hidden Markov Models.” Language Technologies Institute, Carnegie Mellon University, Pennsylvania, United States. 1 November 2019.

“Advanced Text Analysis with Python.” Department of Social and Decision Sciences, Carnegie Mellon University, Pennsylvania, United States. 9 October 2019.

“Introduction to Text Analysis with Python.” Department of Social and Decision Sciences, Carnegie Mellon University, Pennsylvania, United States. 24 September 2019.

“Digital Humanities: a Historical Introduction.” Social Computing Reading Group, Carnegie Mellon University, Pennsylvania, United States. 20 September 2019.

SELF-ORGANIZED READING GROUPS

Cultural Analytics Reading Group. Carnegie Mellon University, Pennsylvania, United States. September 2019–present. <https://ca.kentkchang.com/>

selected titles: “The Event of Queer Theory” (23 September, 7 October 2019), “The Historical Construction of Sexuality” (14, 21, 28 October 2019), “Queer Reading and Literary Sociology” (scheduled 16 December 2019)

Cultural and Literary Text Mining Study Group. UCL (University College London). London, United Kingdom. June 2018–August 2018. <https://caltmig.kentchang.com/>

selected titles: “Digital Scholarship in Literary Studies” (7 June 2018), “Scalar Reading” (14, 21 June 2018), “Think Searches” (28 June 2018), “Think Future” (19 July 2018), “Think Small” (26 July, 2 August 2018)

SELECTED PROFESSIONAL EXPERIENCE

Intern July 2018–November 2018

Department of Research Services, the British Library (United Kingdom)
(advised by Simon Moffatt)

- created prototype of a web app to facilitate access to the Library’s textual resources
- wrote Python tutorial series in Jupyter and Sphinx

SELECTED TEACHING EXPERIENCE

Teaching assistant September 2016–June 2017

Department of Foreign Languages and Literatures, National Taiwan University (Taiwan)

- TA for FL1009, 1010 Freshman English (with 2-hour Aural Training), session 03, to Prof. Hui-chuan Chang
- created and maintained additional course websites for my TA section: <http://static.kentkchang.com/fe/> and <http://static.kentkchang.com/fe2>

Part-time English language instructor July 2011–September 2017

Ying-Da Private Language School

- Teacher of General English Proficiency Test, the most widely recognised English proficiency test in Taiwan
- offered CEFR A2–C1 level classes

ACADEMIC HONORS AND AWARDS

Berkeley Fellowship for Graduate Study, Graduate Division, UC Berkeley.

Spring 2017 Presidential Award. National Taiwan University.

Fall 2011 Presidential Award. University of Taipei.

ACADEMIC ACTIVITIES AND SERVICES

reviewer for Digital Humanities 2020 Conference. Ottawa, Canada.

student academic representative for the 2017/18 cohort of MA/MSc in Digital Humanities at University College London. September 2017–September 2018.

SELECTED SKILLS

LANGUAGES

Mandarin Chinese (native)
 English (proficient)
 German (intermediate; four semesters of coursework)
 Classical Latin (elementary; two semesters of coursework)
 Japanese (elementary; two semesters of coursework)

DATA SCIENCE

Python (incl. NLTK, gensim, spaCy; scikit-learn; pandas, NumPy, SciPy; matplotlib, seaborn; beautifulsoup, ltree); R; MALLET

WEB DEVELOPMENT

Front-end React.js, Bootstrap 4, Semantic UI, jQuery, Sass
Back-end Express.js, MongoDB, GraphQL; Django, PostgreSQL, SQLite

OTHER PROGRAMMING LANGUAGES

ES6 JavaScript, PHP, C/C++, Guile Scheme, Java

MARKUP LANGUAGES

HTML5 (incl. CSS3), XML (incl. XSLT 2.0 and TEI-P5), L^AT_EX, Markdown