

Wei Quan

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RESEARCH KEYWORDS

Data Science, Opinion Mining, Computational Social Science, Natural Language Processing, Deep Learning, Big Data, Information Visualization, Cross Cultural Communication, Computer-mediated Communication

EDUCATION

- 2020 **Ph.D. Information Science**
College of Computing and Informatics, Drexel University, Philadelphia, PA
- 2015 **M.S. Library & Information Science**
School of Information Studies, Syracuse University, Syracuse, NY
- 2013 **B.S. Information & Computing Science**
School of Science, Beijing University of Posts and Telecommunications, Beijing, China

EMPLOYMENT

- 2022 – 2023 **Assistant Professor**
Guangdong Provincial Key Laboratory of Interdisciplinary Research and Application for Data Science (IRADS), Zhuhai, Guangdong, China
- 2022 – 2023 **Associate Fellow**
HKBU-UIC Research Postgraduate Studies Joint Board, Beijing Normal University - Hong Kong Baptist University United International College, Zhuhai, Guangdong, China
- 2022 – 2023 **Assistant Professor**
Faculty of Science and Technology, Beijing Normal University - Hong Kong Baptist University United International College, Zhuhai, Guangdong, China
- 2020 – 2021 **Research Associate**
Social Research and Public Policy, New York University Abu Dhabi, Abu Dhabi, UAE

Curriculum Vitae

- 2020 – 2021 **Lecturer**
School of Convergence, Sungkyunkwan University, Seoul, South Korea
- 2015 – 2020 **Doctoral Research/Teaching Fellow**
College of Computing and Informatics, Drexel University, Philadelphia, PA
- 2018 – 2019 **Data Scientist**
Department of Biomedical and Health Informatics, Children’s Hospital of Philadelphia, Philadelphia, PA
- 2017 – 2018 **Data Scientist**
Information Services Department, Children’s Hospital of Philadelphia, Philadelphia, PA
- 2016 **NPR Labs Intern**
NPR, Washington, DC
- 2014 – 2015 **Faculty Assistant**
School of Information Studies, Syracuse University, Syracuse, NY
- 2014 – 2015 **Cataloging Assistant**
College of Law Library, Syracuse University, Syracuse, NY

SPONSORED PROJECTS

- 2022-2025 **Opinion Mining on Digital Media**
60K, UIC Research Grant - Start-up Research Fund, UICR0700038-22
PI: **Wei Quan**

PUBLICATIONS**Conference Full Papers**

- [P12] Kim, W., **Quan, W.** (2022). Instagram Users’ Reactions towards Virtual Influencers: Revisiting Uncanny Valley with the Text Mining Approach. 2022 Korea Advertising Society Global Colloquium, Sokcho, Korea, July 6-7, 2022
- [P11] Han, S., Zhang, R. F., Shi, L., Richie, R., Liu, H., Tseng, A., **Quan, W.**, Ryan, N., Brent, D., Tsui, F. R. (2022). Classifying Social Determinants of Health from Unstructured Electronic Health Records Using Deep Learning-based Natural Language Processing. *Journal of biomedical informatics*, 103984.
- [P10] **Quan, W.** (2021, November). Challenges of Online Learning During the COVID-19: What Can We Learn on Twitter?. In *International Conference on Advanced Research in Technologies, Information, Innovation and Sustainability* (pp. 524-535). Springer, Cham.

Curriculum Vitae

- [P9] **Quan, W.**, Zhang, J., Hu, X. (2019). End-to-End Joint Opinion Role Labeling with BERT. 2019 IEEE International Conference on Big Data. Los Angeles, CA, December 9-12, 2019
- [P8] Zhang, J., Hu, X., Jiang, Z., Song, B., **Quan, W.** (2019). Predicting Disease-related RNA Associations based on Graph Convolutional Attention Network. IEEE International Conference on Bioinformatics and Biomedicine 2019. San Diego, CA, November 18-21, 2019
- [P7] Ruiz, V., Shi, L., **Quan, W.**, Ryan, N., Biernesser, C., Brent, D., Tsui, R. (2019). CLPsych2019 Shared Task: Predicting Suicide Risk Level from Reddit Posts on Multiple Forums. CLPsych at NAACL 2019. Minneapolis, USA, June 2-7, 2019
- [P6] **Quan, W.**, Chen, Z., Hu, X. (2018). BANN: A framework for aspect-level opinion mining. The 6th International Conference on Information Technology: IoT and Smart City. Hong Kong, China, December 29-31, 2018
- [P5] Chen, Z., Yu, X., Ling, Y., Song, B., **Quan, W.**, Hu, X. and Yan, E. (2018). Correlated Anomaly Detection from Large Streaming Data. 2018 IEEE International Conference on Big Data. Seattle, WA, December 10-13, 2018
- [P4] **Quan, W.**, Chen, Z., Gao, J., Hu, X. (2018). Comparative Study of CNN and LSTM based Attention Neural Networks for Aspect-Level Opinion Mining. 2018 IEEE International Conference on Big Data. Seattle, WA, December 10-13, 2018
- [P3] Guerra, J., **Quan, W.**, Li, K., Ahumada, L., Winston, F., Desai, B. (2018). Scosy: A Biomedical Collaboration Recommendation System. 40th Annual International Conference of the IEEE Engineering in Medicine and Biology Society. Honolulu, HI, July 17-21, 2018.
- [P2] **Quan, W.**, Hu, X. (2018). Which airline tops on social media: visualization of Twitter U.S. airline sentiment. 2018 International Conference on Business and Information - Winter Session. Okinawa, Japan, January 23-25, 2018
- [P1] Zhao, C., Zang, Y., **Quan, W.**, Hu, X., Sacan, A. (2017). HIV-1, Human Protein-protein Interaction Prediction Based on Interface Architecture Similarity. IEEE International Conference on Bioinformatics and Biomedicine 2017. Kansas City, MO, November 13-16, 2017

Short Papers & Posters

- [SP13] Liao, W., Shi Y., Hu Y., **Quan, W.** (2023). Yelp Reviews and Food Types: A Comparative Analysis of Ratings, Sentiments, and Topics. SBP-BRiMS 2023. Pittsburgh, PA, September 20-23, 2023
- [SP12] Feng, G., Cai H., **Quan, W.** (2023). Exploring the Emotional and Mental Well-Being of Individuals with Long COVID Through Twitter Analysis. SBP-BRiMS 2023. Pittsburgh, PA, September 20-23, 2023

Curriculum Vitae

- [SP11] **Quan, W.**, Li, Z., Kim, W. (2022). Implicit Discriminatory Bias Reflected in Yelp Reviews - A case study. 2022 IEEE International Conference on Big Data. Osaka, Japan, December 17-20, 2022
- [SP10] Feng, C., Wei, M., **Quan, W.**, Li, D. (2020). Who Gets Hired by Top LIS Schools in China? iConference 2020. Borås, Sweden, March 23-26, 2020
- [SP9] Wang, W., Feng, C., **Quan, W.** (2019). Data-driven control of a class of discrete-time linear complex dynamical networks. 2019 IEEE International Conference on Big Data. Los Angeles, CA, December 9-12, 2019
- [SP8] Zhang, J., Hu, X., Jiang, Z., **Quan, W.** (2019). Predicting Disease-related Associations based on A Novel Graph Adversarial Network. 2019 Mid-Atlantic Bioinformatics Conference. Philadelphia, PA, Oct. 11, 2019
- [SP7] Su, R., **Quan, W.** (2019). Visualizing periodicals published in Guangdong during the Republican Era. iConference 2019. Washington, DC, March 31-April 3, 2019
- [SP6] **Quan, W.**, Hu, X. (2018). Opinion Mining and Visualization Framework. 2nd Annual Drexel Emerging Graduate Scholars Conference. Philadelphia, PA, April 19, 2018
- [SP5] Feng, C., **Quan, W.** (2018). Data Analytics in Healthcare: A Case Study of Mining Electronic Health Records, iConference 2018. Sheffield, UK, March 25-28, 2018
- [SP4] Guerra, J., **Quan, W.**, Li, K., Ahumada, L., Desai, B. (2018). SchoSys: A collaboration recommendation system. 1st CHOP Education Symposium: Healthcare Professionals Teaching and Learning Together. Philadelphia, PA, January 24, 2018
- [SP3] **Quan, W.**, Ahumada, L., Zhang, Y., Pappas, J., Desai, B. (2017). Electronic Health Record Clustering Analysis: Association rule mining applied to medications and labs for Pneumonia and Urinary Tract Infections. 2017 Mid-Atlantic Bioinformatics Conference. Philadelphia, PA, Oct. 10, 2017
- [SP2] **Quan, W.**, Park, J. (2017). Use of Paralinguistic Features on Twitter across Chinese, English and Korean Cultures. 46th Annual Mid-Atlantic Region Association for Asian Studies Conference. Philadelphia, PA, October 6-8, 2017
- [SP1] **Quan, W.**, He, J. (2017). Detecting and Visualizing Topic Evolution of a Knowledge Domain in Scientific Literature. 9th Annual Drexel IEEE Graduate Forum's Research Symposium. Philadelphia, PA, Mar. 3, 2017

Presentations & Invited Talks

- [PIT12] Opinion Mining on Digital Media Data. Invited Talk at UIC DS Sharing Session. April 6, 2022. BNU-HKBU UIC.
- [PIT11] Opinion Mining on Digital Media Data. Invited Talk at IBS Seminar. May 12, 2021. KAIST.

Curriculum Vitae

- [PIT10] Opinion Mining on Digital Media Data and Beyond. Job Talk. October 23, 2020. Sungkyunkwan University.
- [PIT9] Opinion Mining on Digital Media Data: Advancing State-of-the-art Methods with Deep Learning. Final Defense. May 4, 2020. College of Computing and Informatics, Drexel University.
- [PIT8] End-to-End Joint Opinion Role Labeling with BERT. 2019 IEEE International Conference on Big Data. Los Angeles, CA, December 10, 2019.
- [PIT7] Technical Masterclasses: Digital and Online Portfolios. Invited Talk by Drexel Career Cornerstone Group & Drexel Data Science Club. May 31, 2019. College of Computing and Informatics, Drexel University.
- [PIT6] Opinion Mining from Online Platforms: Advancing state-of-the-art methods with Deep Learning and NLP. Proposal Defense. April 23 & 24, 2019. College of Computing and Informatics, Drexel University.
- [PIT5] BANN: A framework for aspect-level opinion mining. The 6th International Conference on Information Technology: IoT and Smart City. December 30, 2018. Hong Kong, China.
- [PIT4] Comparative Study of CNN and LSTM based Attention Neural Networks for Aspect-Level Opinion Mining. 2018 IEEE International Conference on Big Data. Dec. 11, 2018. Seattle, WA.
- [PIT3] Overview of Opinion Mining. Guest presentation for INFO 821 PhD Seminar on Topics in Information Science. May. 08, 2018. College of Computing and Informatics, Drexel University.
- [PIT2] Which airline tops on social media: visualization of Twitter U.S. airline sentiment. 2018 International Conference on Business and Information - Winter Session. Jan. 24, 2018. Okinawa, Japan
- [PIT1] Opinion mining in NLP & Deep Learning. Candidacy Exam. June 15, 2017. College of Computing and Informatics, Drexel University.

TEACHING**Assistant Professor, BNU-HKBU UIC**

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|------------|---|
| Instructor | Python Programming for Beginners (DS 1013) <ul style="list-style-type: none"> • Spring 2023; Fall 2022; Spring 2022 Social Computing (DS 4063) <ul style="list-style-type: none"> • Fall 2022 Ethics in An Era of Artificial Intelligence and Robotics (GFVM 1033) <ul style="list-style-type: none"> • Spring 2023; Spring 2022 |
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Curriculum Vitae

Lecturer, Sungkyunkwan University

Instructor Applied Natural Language Processing (DSC3025-01)
 • Fall 2020

PhD Candidate, Drexel University

Doctoral Math/Prog Foundations for DSCI (INFO T780)
 Teaching • Winter 2019
 Fellow Computing and Informatics Design III (CI 103)
 • Spring 2017
 Computing and Informatics Design II (CI 102)
 • Winter 2016
 Software Project Management (INFO 638)
 • Spring 2016
 Information Systems Management (INFO 646)
 • Spring 2016

COURSE & CURRICULAR DESIGN

- Course Designer, Social Computing (UIC, DS4063)
- Course Designer, Applied Natural Language Processing (SKKU, DSC3025-01)
- Course Convener, Python Programming for Beginners (UIC, DS1013)

ADVISING & MENTORING**Undergraduate Students**

2022 – 2023 Guocheng Feng, Data Science
 Huaiyu Cai, Data Science
 Weiyu Liao, Data Science
 Yiqing Shi, Data Science

Senior Thesis Advising

2022 – 2023 Thesis: Opinion Leader Detection in SNS Cyberspace: based on LDA topic
 model about Juvenile Delinquency of bilibili.com
 Yunan Li, Data Science
 Qirui He, Data Science
 Deran Kong, Data Science

Curriculum Vitae

SERVICE & LEADERSHIP

- 2022 – 2023 Graduate Student Mentor
- 2022 – 2023 Mentor Caring Program Mentor
- 2022 Special Intake Oral Examiner
- 2022 CEAE Oral Examiner
- 2021 TheWebConf 2021 Reviewer
- 2017 – 2020 Volunteer, Philadelphia Animal Welfare Society, Philadelphia, PA
- 2019 Resident Advisor at IHP, Philadelphia, PA
- 2018 – 2019 Front Desk Worker at IHP, Philadelphia, PA
- 2016 – 2017 Secretary, College of Computing and Informatics Doctoral Student Association, Philadelphia, PA
- 2016 Student Volunteer, iConference 2016, Philadelphia, PA
- 2014 Student Volunteer, Computers in Libraries 2014, Washington, D.C.
- 2014 Student Volunteer, Fayetteville Free Library, Fayetteville, NY
- 2014 Student Volunteer, Syracuse University Bird Library, Syracuse, NY

PROFESSIONAL AFFILIATIONS

Upsilon Pi Epsilon, Pi Lambda Sigma Chapter of Beta Phi Mu

AWARDS

- [A10] 2019-2020 Teck-Kah Lim Graduate Student Domestic Travel Subsidy Award
- [A9] 2019-2020 Drexel University College of Computing and Informatics Travel Award
- [A8] 2018-2019 Drexel University College of Computing and Informatics Travel Award
- [A7] 2018 International Conference on Business and Information Outstanding Paper Award
- [A6] 2017-2018 Drexel University Office of International Programs International Travel Award

Curriculum Vitae

- [A5] 2017-2018 Drexel University College of Computing and Informatics Travel Award
- [A4] 2013-2015 D. Whitney Coe Graduate Scholarship
- [A3] 2014-2015 Patricia Hallock Mautino Scholarship
- [A2] 2011 1st Prize China Undergraduate Mathematical Contest in Modeling
- [A1] 2010 Beijing University of Posts & Telecommunications Scholarship

Referees

Name: Xiaohua Tony Hu

Title: Professor

Email Address: xh29@drexel.edu

Name: Yongjun Zhu

Title: Assistant Professor

Email Address: zhu@yonsei.ac.kr

Name: Donglong Chen

Title: Associate Professor

Email Address: donglongchen@uic.edu.cn

Name: Yujia Hu

Title: Assistant Professor

Email Address: yujiahu@uic.edu.cn

Updated on July 2023