

Wei Quan

Assistant Professor

Faculty of Science and Technology

Beijing Normal University - Hong Kong Baptist University United International College
Zhuhai, Guangdong, China

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RESEARCH KEYWORDS

Opinion Mining, Computational Social Science, Data 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 – **Assistant Professor**
Guangdong Provincial Key Laboratory of Interdisciplinary Research and Application for Data Science (IRADS), Zhuhai, Guangdong, China
- 2022 – **Associate Fellow**
HKBU-UIC Research Postgraduate Studies Joint Board, Beijing Normal University - Hong Kong Baptist University United International College, Zhuhai, Guangdong, China
- 2022 – **Assistant Professor**
Faculty of Science and Technology, Beijing Normal University - Hong Kong Baptist University United International College, Zhuhai, Guangdong, China

Curriculum Vitae

- 2020 – 2021 **Research Associate**
Social Research and Public Policy, New York University Abu Dhabi, Abu Dhabi, UAE
- 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 Ming 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.

Curriculum Vitae

- [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.
- [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

- [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

Curriculum Vitae

- [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.
- [PIT10] Opinion Mining on Digital Media Data and Beyond. Job Talk. October 23, 2020. Sungkyunkwan University.

Curriculum Vitae

- [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**

- Instructor
- Python Programming for Beginners (DS 1013)
 - Spring 2022; Fall 2022
 - Social Computing (DS 4063)
 - Fall 2022
 - Ethics in An Era of Artificial Intelligence and Robotics (GFVM 1033)
 - Spring 2022

Lecturer, Sungkyunkwan University

Curriculum Vitae

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)

ADVISING & MENTORING

Undergraduate Students

2022 – Guocheng Feng, Data Science

 Huaiyu Cai, Data Science

 Junlin Zhu, Data Science

Senior Thesis Advising

2022 – 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

SERVICE & LEADERSHIP

Curriculum Vitae

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
[A5]	2017-2018 Drexel University College of Computing and Informatics Travel Award

Curriculum Vitae

- [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: Yujia Hu

Title: Assistant Professor

Email Address: yujiahu@uic.edu.cn

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