

## Wei Quan

Assistant Professor

Division of Science and Technology

Beijing Normal University - Hong Kong Baptist University

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### RESEARCH AREAS

Opinion Mining, Natural Language Processing, Computational Social Science, Data Science, 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

### RESEARCH & PROFESSIONAL EXPERIENCE

- 2022 –      **Assistant Professor**  
Division 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
- 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

## Curriculum Vitae

- 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

## PUBLICATIONS

## Conference Full Papers

- [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.
- [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

## Curriculum Vitae

- [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**

- [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

## Curriculum Vitae

- [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**

- [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.
- [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.

**PROFESSIONAL AFFILIATIONS**

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

## Curriculum Vitae

### **SERVICE & LEADERSHIP**

- 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

### **CONFERENCE ORGANIZATION & REVIEW**

TheWebConf 2021

### **TEACHING**

- Instructor, Applied Natural Language Processing (DSC3025-01), Sungkyunkwan University, Fall 2020
- Doctoral Teaching Fellow, Math/Prog Foundations for DSCI (INFO T780), Drexel University, Winter 2019
- Doctoral Teaching Fellow, Computing and Informatics Design III (CI 103), Drexel University, Spring 2017
- Doctoral Teaching Fellow, Computing and Informatics Design II (CI 102), Drexel University, Winter 2016
- Doctoral Teaching Fellow, Software Project Management (INFO 638), Drexel University, Spring 2016
- Doctoral Teaching Fellow, Information Systems Management (INFO 646), Drexel University, Spring 2016

### **COURSE & CURRICULAR DESIGN**

Course Designer, Applied Natural Language Processing (DSC3025-01)

### **AWARDS**

- [A10] 2019-2020 Teck-Kah Lim Graduate Student Domestic Travel Subsidy Award

## Curriculum Vitae

- [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
- [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