Curriculum Vitae

Wei Quan

Lecturer
School of Convergence
Sungkyunkwan University
Seoul, South Korea
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RESEARCH AREAS

Opinion Mining, Sentiment Analysis, Natural Language Processing, Deep Learning, Big Data, Computational Social Science, Data Science, 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

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

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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

[P12]   Long, X., **Quan, W.**, Chen, Z., Hu, X. (submitted). Protein Secondary Structure Segmentation Modeling Using Word Segmentation Model

[P11]   Zhang, J., **Quan, W.** (submitted). Semi-supervised classification based on Graph Convolution Encoder Representations from Transformers

[P10]   Zhang, J., Hu, X., Jiang, Z., Li, Y., **Quan, W.**, Chen, Z. (submitted). HCNs: Heterogeneous Convolutional Networks for Representation Learning

[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

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[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

[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

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

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[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

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

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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
[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