

**DYLAN T. WALKER**

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**ACADEMIC POSITIONS**

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2021-present	Associate Professor <i>Argyros School of Business &amp; Economics, Chapman University</i>
2012-2021	Assistant Professor <i>Questrom School of Business, Boston University, Information Systems</i>
2008-2012	Post-doctoral Research Associate <i>NYU Stern School of Business, IOMS Department</i>
2008	Ph.D. Theoretical Physics of Complex Systems <i>Stony Brook University</i>
2002	Bachelors of Engineering in Electrical Engineering <i>Stevens Institute of Technology (Summa Cum Laude)</i>
2002	Bachelors of Science in Physics <i>New York University (Magna Cum Laude)</i>

**JOURNAL PUBLICATIONS**

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1. Kim, H., & Walker, D. (2020). Leveraging volunteer fact checking to identify misinformation about COVID-19 in social media. *Harvard Kennedy School Misinformation Review*, 1(3).
2. Zhu, K., Walker, D., & Muchnik, L., "Content Growth and Attention Contagion in Information Networks: Addressing Information Poverty on Wikipedia." *Information Systems Research* 31 (2), 2020.
3. Anderson, B., Hair, M., Groshek, J., Krishna, A., and Walker, D. "Understanding and Diagnosing Antimicrobial Resistance on Social Media: A Yearlong Overview of Data and Analytics.", *Health Communication* 34 (2), 248-258, 2017
4. Walker, D. and Muchnik, L. "Design of Randomized Experiments in Networks." *Proceedings of IEEE*, 04 Nov 2014 102(12) pp. 1940-1951.
5. Aral, S. & Walker, D. "Tie Strength, Embeddedness & Social Influence: A Large-Scale Networked Experiment." *Management Science*, 21 April 2014, 60(6) pp. 1352-1370.
6. Aral, S. & Walker, D., "Designing Viral Features for Broader Reach." *GfK Marketing Intelligence Review* 2013 5 (2) pp. 18-23
7. Aral, S. & Walker, D. "An Experimental Method for Identifying Influential and Susceptible Members of Online Social Networks." *Science*, 20 July 2012: Vol. 337 no. 6092 pp. 337-341.
8. Aral, S. & Walker, D. "Creating Social Contagion through Viral Product Design: A Randomized Trial of Peer Influence in Networks." *Management Science* August, 2011.
  - Selected as an Editor's Choice article by the editors of *Science*
9. Aral, S. & Walker, D. "Identifying Social Influence in Networks Using Randomized Experiments." *IEEE Intelligent Systems* 26 (5), Sep.-Oct. 2011.
10. Aral, S. & Walker, D. "Forget Viral Marketing: Make the Product Itself Viral." *Harvard Business Review*, 89 (6); June 2011 34-35.
11. D. Walker, H. Xie, K.K. Yan, S. Maslov "Ranking Scientific Publications Using a Model of Network Traffic", *Journal of Statistical Mechanics*, 6 (10) 2007.

(For a full list of publications and current citation estimates, see: <https://goo.gl/ueDbZE> )

## WORKING PAPERS AND PAPERS UNDER REVIEW

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1. Chen, C. & Walker, D., "*A Bitter Pill to Swallow: The Impact of Patient Evaluation on Online Health Q&A Platforms.*" Under 2<sup>nd</sup> Round Review at [Information Systems Research](#)
2. Krupenkin, M., Zhu, K., Walker, D., & Rothschild, D. M. (2020). "If a Tree Falls in the Forest: COVID-19, Media Choices, and Presidential Agenda Setting", under review at the [Proceedings of the National Academy of Sciences](#).
3. Livneh, N., Walker, D., Muchnik, L., Goldenberg, J. "Is Peer Influence Essential for Success?" Under Review at *Information Systems Research*.
4. Zhu, K. and Walker, D., "A Warped Mirror: Skewed Attention in Media Coverage of Gun Violence." Working Paper.
5. Chen, C., Zhu, H., Walker, D., & Saligrama, V., "*Political Slant: How You Talk About What You Talk About!*." Working Paper.
6. Zhu, K. & Walker, D. "*The Impact of TV Station Ownership on Political Slant and Information Diversity.*" Working Paper.
7. Walker, D. & Muchnik, L. "*The Impact of Social Media on Television Viewership: Evidence from a Natural Experiment.*" Working Paper.
8. Miller, M., Walker, D., Muchnik, L., Goldenberg, J., "*The Spillover Effect of TV Advertising on eBay Sales.*" Working Paper.

## PATENTS

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1. Patent 20140310058: *Identifying Influential and Susceptible Members of Social Networks*
2. Provisional Patent 62/372,480: *Method of identifying repetitive patterns in big data and system thereof*

## CONFERENCE PUBLICATIONS AND PRESENTATIONS

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Krupenkin, M., Zhu, K., Walker, D., & Rothschild, D. M. (2020). "If a Tree Falls in the Forest: COVID-19, Media Choices, and Presidential Agenda Setting", Politics and Computational Social Science (PaCSS 2020), Boston, MA

Zhu, K. & Walker, D. "A Warped Mirror: Skewed Coverage of Gun Violence in TV News." Statistical Challenges in Electronic Commerce Research (SCECR 2020), Virtual Conference.

Zhu, K. & Walker, D. "How Media Ownership Impacts Information Skews: A Study of Televised News Using Massive-Scale Text Transcripts.", Workshop on Information Systems and Economics (WISE 2020), Munich, Germany

Walker, D., Groshek, J., Fielder, T. & Katz, J. 2018 "Social Media Interventions to Address Mis/Disinformation Spread.", Knight Foundation Conference on Battling Misinformation, Austin, TX

Zhu, K. & Walker, D. 2018 "Political Slant in Local Televised News", Politics and Computational Social Science (PaCSS 2018), Boston, MA

Chen, C & Walker, D. 2018, "*A Bitter Pill to Swallow: The Impact of Patient Evaluation on Online Health Q&A Platforms.*", Workshop on Information Systems Economics (WISE 2018), San Francisco, CA

Zhu, K., Walker, D. & Muchnik, L. 2018, "Content Growth and Attention Contagion in Information Networks: A Large Scale Natural Experiment on Wikipedia", Statistical Challenges in Electronic Commerce Research (SCECR 2018), Rotterdam, NL

Zhu, K., Walker, D. & Muchnik, L. 2017, "Content Growth in Wikipedia: A Large Scale Natural Experiment", Workshop on Information Systems Economics (WISE 2017), Seoul, South Korea

Livneh, N., Muchnik, L. & Walker, D. 2017, "The Impact of Fake Reviews on eCommerce: A Large Scale Natural Experiment", Workshop on Information Systems Economics (WISE 2017), Seoul, South Korea

Zhu, K., Walker, D. & Muchnik, L. 2017, "Content Growth in Wikipedia: A Large Scale Natural Experiment", The Conference on Digital Experimentation (CODE@MIT 2017), Boston, MA

Walker, D. 2016 "How Things Spread in Online Social Networks." Research on Tap, Boston University, Boston, MA

Walker, D. 2014 "Identifying Social Influence through Randomized Experiments." Northwestern Institute on Complex Systems (Wednesdays@NICO), Evanston, IL

Walker, D. & Muchnik, L. 2014 "Randomized Experiments in Networks." The Conference on Digital Experimentation (CODE@MIT), Cambridge, MA

Walker, D. & Muchnik, L. 2014 "Does Twitter Drive Television Consumption? Evidence from a Large Scale Natural Experiment." Statistical Challenges in eCommerce Research 2014, Tel Aviv, IL

Walker, D. & Muchnik, L. 2013 "Does Twitter Drive Television Consumption? Evidence from a Large Scale Natural Experiment." Workshop on Information Systems and Economics 2013, Milan, IT

Walker, D. & Aral, S. 2013 "Tie Strength, Embeddedness, and Social Influence: Evidence from a large scale networked experiment." INFORMS Annual Meeting 2013, Minneapolis, MN

Walker, D. & Muchnik, L. 2013 "The Impact of Social Media on Television Viewership: Evidence from a Large Scale Natural Experiment." INFORMS Annual Meeting 2013, Minneapolis, MN

Walker, D. & Muchnik, L. 2013 "The Impact of Social Media on Television Viewership: Evidence from a Large Scale Natural Experiment." Statistical Challenges in eCommerce Research Symposium 2013, Lisbon, PT

Walker, D. & Aral, S. 2013 "Tie Strength, Embeddedness, and Social Influence: Evidence from a large scale networked experiment." *American Association Annual Meeting* 2013, San Diego, CA.

Walker, D. & Aral, S. 2011. "Identifying Influential and Susceptible Individuals in Social Networks: Evidence from a Randomized Experiment." Winter Conference on Business Intelligence 2011, University of Utah, Salt Lake City, UT.

Aral, S., & Walker, D. 2010. "Creating Social Contagion through Viral Product Design: A Randomized Trial of Peer Influence in Networks" Proceedings of the 31th Annual International Conference on Information Systems, St. Louis, MO.

Aral, S. & Walker, D. 2010. "Creating Social Contagion through Viral Product Design: A Randomized Trial of Peer Influence in Networks". *Workshop on Information in Networks*, New York, NY.

Aral, S., Walker, D. 2010. "Creating Social Contagion through Viral Product Design: A Randomized Trial of Peer Influence in Networks." *National Bureau of Economic Research (NBER) Summer Institute*, Cambridge, MA.

Aral, S., Walker, D. 2010. "Creating Social Contagion through Viral Product Design: A Randomized Trial of Peer Influence in Networks." *Sunbelt XXVIII Social Networks Conference*, June 29 - July 4, Garda Lake, Italy.

Aral, S., Walker, D. 2010. "Creating Social Contagion through Viral Product Design: A Randomized Trial of Peer Influence in Networks." *International Conference on Network Science*, Cambridge, MA.

Aral, S., Walker, D. 2009. "Identifying Peer Influence in Massive Online Social Networks: A Platform for Randomized Experimentation on Facebook." *Workshop on Information Systems Economics*, Phoenix, AZ.

Walker, D. 2007. "Perturbation in Protein Interaction Networks." *Boulder School for Condensed Matter and Material Physics*, Boulder, CO.

Walker, D. 2006. "Aging in Citation Networks." *International Conference on Network Science*, Bloomington, IN.

## TEACHING

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2020 Fall	<i>R Bootcamp (QM870), Questrom School of Business, Boston University</i>
2020 Spring	<i>Python and Neural Networks (BA865), Questrom School of Business, Boston University (Created and taught course)</i>
2019 Fall	<i>Managing Data Resources (IS465), Questrom School of Business, Boston University</i>
2019 Summer	<i>Human Centered Design (IS754), Questrom School of Business, Boston University</i>
2018 Spring	<i>MSMS Program, Questrom School of Business, Boston University</i>
2017 Fall	<i>MSMS Program, Questrom School of Business, Boston University</i>
2017 Summer	<i>Human Centered Design (IS754), Questrom School of Business, Boston University (Created and taught course)</i>
2016 Summer	<i>Computer Architecture and Systems Software (IS707), Questrom School of Business, Boston University</i>
2016 Spring	<i>IT Strategies (IS710), Questrom School of Business, Boston University</i>
2015 Summer	<i>Managing Networked Systems (IS705), Questrom School of Business, Boston University</i>
2015 Summer	<i>Computer Architecture and Systems Software (IS707), Questrom School of Business, Boston University</i>
2015 Spring	<i>IT Strategies (IS710), Questrom School of Business, Boston University</i>
2014 Spring	<i>IT Applications in Management (IS717), Questrom School of Business, Boston University</i>
2013-14 Spring	<i>IT Strategies for a Networked Economy (IS711), Questrom School of Business, Boston University</i>
2012 Spring	<i>Information Technology in Business and Society (UB.0001.005), Stern School of Business, New York University</i>

2004-2005	<i>Honors Classical Physics (PHY132-RCT), Stony Brook University</i>
2003-2004	<i>Classical Physics Lab (PHY121), Stony Brook University</i>

## AWARDS & HONORS

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2017	Winner of Knight Foundation Prototype Award for <i>Combating Misinformation with Social Media Interventions</i>
2016	Paper Selected for INFORMS Editor's Cut Collection "Big Data Analytics"
2016	Paper Selected for University of Cambridge's 2016 Policy Impact Report in the domain of Big Data Research
2013	Hariri Institute Junior Faculty Fellow
2013	Finalist, Management Science Best Paper Award in Information Systems
2013	Management Science Meritorious Service Award
2002	Morse Medal for Academic Excellence, <i>New York University</i>
2001	Inducted into <i>Eta Kappa Nu Engineering Honors Society</i>
2000	Inducted into <i>Sigma Pi Sigma Physics Honors Society</i>

## GRANTS

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- (Co-PI) CARB-X Social Innovation in Drug Resistance (\$154k) (2018)
- (Co-PI) Knight Foundation Prototype Award for "Addressing Fake News and Misinformation Spread using Social Media Interventions" (\$50k) (2017)
- (Co-PI) Boston University's Institute for Health System Innovation and Policy Seed Funding for "Understanding and Diagnosing AMR Misinformation on Social Media" (\$33k) (2016)
- (PI) Boston University's Hariri Institute Research Project Award (\$25k) (2015)

## SERVICE

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### *Reviewer*

- Management Science
- Management Information Systems Quarterly
- Information Systems Research
- Science

- Marketing Science
- American Journal of Sociology
- Workshop on Information Systems Economics
- International Conference on Information Systems
- Conference on Information Systems and Technology
- Statistical Challenges in eCommerce Research
- MIT Sloan Management Review
- Nature Human Behavior
- Nature Communications
- Journal of Causal Inference
- Israeli Science Foundation

Associate Editor

- International Conference on Information Systems

*Conference Chair*

- Boston University Data Science

## **PRESS COVERAGE**

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- “Facebook study finds men, married people are most influential.” [LA Times](#), June 21, 2012
- “Dear Klout, This is How Your Measure Influence.” [Tech Crunch](#), June 21, 2012
- “Social Scientists Wade into the Tweet Stream.” [Science](#), 30, September, 2011
- “Unlocking Viral Secrets on Facebook.” [Fast Company](#), July 4, 2011.
- “Viral Marketing Isn’t the New Marketing, Viral Products Are.”, [The Social Customer](#), June 30, 2011