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ACADEMIC POSITIONS

2012-present	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>

SELECTED JOURNAL PUBLICATIONS

- Anderson, B., Hair, M., Groshek, J., Krishna, A., and Walker, D. (in press) "Understanding and Diagnosing Antimicrobial Resistance on Social Media: A Yearlong Overview of Data and Analytics.", *Health Communication*.
- Walker, D. and Muchnik, L. "Design of Randomized Experiments in Networks." *Proceedings of IEEE*, 04 Nov 2014 102(12) pp. 1940-1951.
- Aral, S. & Walker, D. "Tie Strength, Embeddedness & Social Influence: A Large-Scale Networked Experiment." *Management Science*, 21 April 2014, 60(6) pp. 1352-1370.
- 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.
- Aral, S. & Walker, D. 2011. "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*
- Aral, S. & Walker, D. 2011. "Identifying Social Influence in Networks Using Randomized Experiments." *IEEE Intelligent Systems* 26 (5), Sep.-Oct. 2011.
- Aral, S. & Walker, D. 2011. "Forget Viral Marketing: Make the Product Itself Viral." *Harvard Business Review*, 89 (6); June 34-35.
- K.K. Yan, D. Walker, S. Maslov 2008. "Fluctuations in Mass-Action Equilibrium of Protein Binding Networks", *Physical Review Letters*, 101 (268102) 2008.
- D. Walker, H. Xie, K.K. Yan, S. Maslov 2007. "Ranking Scientific Publications Using a Model of Network Traffic", *Journal of Statistical Mechanics*, 6 (10) 2007.

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

WORKING PAPERS AND PAPERS UNDER REVIEW

- Zhu, K., Walker, D., & Muchnik, L., "Content Growth and Attention: A Natural Experiment on Wikipedia." Working Paper.

2. Chen, C. & Walker, D., "A Bitter Pill to Swallow: The Impact of Patient Evaluation on Online Health Q&A Platforms." Working Paper.
3. Walker, D., Muchnik, L., & Livneh, N., "The Impact of Labeling Unverified Reviews: A Natural Experiment on the Steam Platform." Working Paper.
4. Walker, D. & Muchnik, L. "The Impact of Social Media on Television Viewership: Evidence from a Natural Experiment." Working Paper.
5. Miller, M., Walker, D., Muchnik, L, Goldenberg, J., "The Spillover Effect of TV Advertising on eBay sales." Working Paper.
6. Walker, D. & Muchnik, L. "Seeding Adoption Through Social Incentive Structures: A randomized controlled trial on a digital payment platform." Working Paper.

PATENTS

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

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

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</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

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	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>

PRESS COVERAGE

- "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