

Katherine Ognyanova

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EDUCATION

University of Southern California

Ph.D. in Communication

2013

Dissertation: "Intermedia agenda setting in an era of fragmentation: Applications of network science in the study of mass communication"
Received AEJMC Mass Communication & Society Dissertation Award.

Committee: Sandra Ball-Rokeach (advisor & committee chair),
Peter Monge, Geneva Overholser, Ann Crigler

University of Southern California

M.A. in Communication

2010

University of Sofia "St. Kliment Ohridski"

M.A. in Virtual Culture

2006

University of Sofia "St. Kliment Ohridski"

B.Sc. in Computer Science

2003

EMPLOYMENT

College of Computer and Information Science, Northeastern University
Institute for Quantitative Social Science, Harvard University

Postdoctoral Research Fellow

2013-Current

Research post in Computational Social Science at the Lazer Lab.

Harvard Vanguard Medical Associates

Consultant

2013

Network analysis and visualization of large-scale medical datasets.

USC Annenberg School for Communication and Journalism

Teaching Assistant, Instructor

2008-2013

Research Assistant

2008-2013

Annenberg Networks Network	PIs: Peter Monge, Manuel Castells
Metamorphosis Project	PI: Sandra Ball-Rokeach
Center for the Digital Future	PIs: Jeffrey Cole, Michael Suman
FCC Media Diversity Project	PIs: Ernest J. Wilson III, Carola Weil

Economedia Publishing Group, Verlagsgruppe Handelsblatt

Journalist, ICT Analyst (Internet governance, telecom regulation)

2000-2007

Visual Editor (Information design, data visualization)

2006-2007

Selected publications are available on [Reuters/Factiva](#).

FELLOWSHIPS AND SCHOLARSHIPS

Fellow at the FCC with the Consortium on Media Policy Studies	2012
Oxford Internet Institute Summer Doctoral Program, Oxford University	2011
Annenberg Graduate Fellowship, University of Southern California	2007-2012
Academic Excellence Scholarship, University of Sofia “St. Kliment Ohridski”	1999-2002

RESEARCH EXPERIENCE

<p>Internet Archive: Evolution of the political web 2013-2014 <i>Project funded by the National Science Foundation.</i> Postdoctoral researcher: Analysis of large-scale web political data. PIs: David Lazer, Matthew Weber</p>
<p>Multiplex network ties: social & political outcomes 2013-2014 <i>Project support by the Evans Scholars Foundation</i> Postdoctoral researcher: Networks among students in 14 universities. PIs: David Lazer, Michael Neblo, William Minozzi, Brian Rubineau</p>
<p>Volunteer Science: online experimental research 2013-2014 <i>Project funded by the Network Science Collaborative Technology Alliance</i> Postdoctoral researcher: Virtual platform for social science experiments. PIs: David Lazer, Noshir Contractor, Waleed Meleis</p>
<p>Harvard Vanguard: Practitioner Networks 2013 <i>Project funded by Atrius Health Inc.</i> Consultant: Network analysis and interactive visualization design.</p>
<p>FCC: Critical Information Needs of the US Public 2011-2012 <i>Project funded by the Federal Communications Commission.</i> Lead Graduate Researcher: Information needs of the American public. PIs: Lewis Friedland, Philip Napoli, Ernest J. Wilson III, Carola Weil</p>
<p>Center for the Digital Future: World Internet Project 2010-2012 <i>Project funded by the National Science Foundation.</i> Graduate Associate: Research & data analysis for World Internet Project. PIs: Jeffrey Cole, Michael Suman</p>
<p>MetaConnects: Communication Research in Action 2010-2013 <i>Project funded by the California Endowment.</i> Research Assistant: Participatory platform for social change organizations. PI: Sandra Ball-Rokeach</p>
<p>Alhambra Project: Civic Engagement and Digital Media 2009-2013 <i>Project funded by the USC Annenberg School and the Knight Foundation.</i> Research Assistant: Civic engagement and participatory online news. PIs: Sandra Ball-Rokeach, Michael Parks</p>
<p>VOSS: Network Dynamics in Virtual Communities 2008-2012 <i>Project funded by the National Science Foundation.</i> Research Assistant: Network dynamics of teams in virtual communities. PIs: Peter Monge, Noshir Contractor, Brian Uzzi, Luis Amaral</p>

TEACHING EXPERIENCE

USC Annenberg School of Communication and Journalism

Teaching Assistant

2008-2013

Communication Program

- COMM 200 - Communication as a Social Science (B.A. level)
- COMM 201 - Communication as Liberal Art (B.A. level)
- COMM 306 - The Communications Revolution, Entertainment and Art (B.A. level)
- COMM 310 - Media and Society (B.A. level)
- COMM 400 - Communication Networks (B.A. level, Senior seminar + labs)
- COMM 645 - Communication Networks (Ph.D. level, Doctoral seminar + labs)

Instructor

2010

Annenberg Program for Online Communities

- CMGT 540 - Uses of Communication Research (M.A. level)
- Graduate class on research design and methodology ([syllabus available here](#))

Guest Lecturer

2010-2013

- University of Southern California:* COMM 204 - Public Speaking
- COMM 618 - Media Effects
- COMM 620 - Research Practice & Social Change
- University at Albany:* ACOM 378 - Studies in Public Persuasion: Ethnic media

HONORS AND AWARDS

- Dissertation Award, Mass Communication & Society Division, Association for Education in Journalism & Mass Communication (AEJMC) 2013
- Top Paper, Political Communication Division, National Communication Association (NCA) 2012
- First place award in Social Science, USC GPSS Symposium Research Poster Competition 2011
- IGI Global Excellence in Research Award, IJEP Best Published Journal Article for 2010 2011
- Carolyn Dexter Award Nominee, Academy of Management, Organizational Communication & Information Systems Division 2010
- USC Annenberg Graduate Fellowship Program Annual Research and Creative Project Symposium Award (\$500/year) 2009-2013
- Annenberg Summer Research Grant, University of Southern California (\$4,000/year) 2008-2011

PUBLICATIONS

Refereed works

- Ognyanova, K., & Ball-Rokeach, S. J. (forthcoming, 2014). Political Efficacy on the Internet: A Media System Dependency Approach. In L. Robinson, S. Cotten & J. Schulz (Eds.), *Communication and Information Technologies: Politics, Participation, and Production*. Bingley, UK: Emerald Group Publishing.
- Ognyanova, K., & Monge, P. (2013) A Multitheoretical, Multilevel, Multidimensional Network Model of the Media System: Production, Content, and Audiences. *Communication Yearbook*, 37, 66-93.

- Ognyanova, K., Chen, N.-T. N., Ball-Rokeach, S. J., An, Z., Son, M., Parks, M., & Gerson, D. (2013). Online Participation in a Community Context: Civic Engagement and Connections to Local Communication Resources. *International Journal of Communication*, 7, 2433-2456.
- Broad, G. M., Ball-Rokeach, S. J., Ognyanova, K., Picasso, T., Stokes, B., & Villanueva, G. (2013). Understanding Communication Ecologies to Bridge Communication Research and Community Action. *Journal of Applied Communication Research*, 41(3), 325-345.
- Ognyanova, K. (2010). News Ties: A Network Study Of Media-Level Agenda-Setting. *Journal of Social Structure*, 11, *JoSS Visualization Symposium 2010*.
- Ognyanova, K. (2010). Talking Past Each Other: Academic and Media Framing of Literacy. *Digital Culture & Education*, 2(1), 44-61.
- Ognyanova, K. (2010). Careful What You Say: Media Control In Putin's Russia - Implications for Online Content. *International Journal of E-Politics*, 1(2), 1-15.
Received IGI Global Excellence in Research Journal Award.

Invited works

- Ognyanova, K. (forthcoming, 2014). In Putin's Russia, Information Has You: Media Control and Internet Censorship in the Russian Federation. In M. Mervio (Ed.), *Handbook of Research on Managing the Public Sphere*. Hershey, PA: IGI Global.
- Chen, N.-T. N., Ognyanova, K., Zhao, N., Liu, W., Gerson, D., Ball-Rokeach, S., & Parks, M. (2013). Communication and Socio-demographic Forces Shaping Civic Engagement Patterns in a Multiethnic City. In P. Moy (Ed.), *Communication and Community* (pp. 207-232). New York, NY: Hampton Press.
- Margolin, D., Ognyanova, K., Huang, M., Huang, Y., & Contractor, N. (2012). Team Formation and Performance on Nanohub: a Network Selection Challenge in Scientific Communities. In B. Vedres & M. Scotti (Eds.), *Networks in Social Policy Problems* (pp. 80-100). Cambridge, UK: Cambridge University Press.
- Ognyanova, K. (2012). Media Control In Putin's Russia - Implications for Online Content. In C. Livermore (Ed.), *E-Politics and Organizational Implications of the Internet: Power, Influence and Social Change* (pp. 61-76). Hershey, PA: IGI Global.
- Ognyanova, K. (2007). Blog practices: searching for answers. In *Journalists in theory, journalists in practice* (pp. 157-177). Sofia, Bulgaria: Faculty of Journalism and Mass Communication, Sofia University St. Kliment Ohridski, GorexPress.

Published Reports & White Papers

- Friedland, L. A., Napoli, P. M., Ognyanova, K., Weil, C., & Wilson III, E. J. (2012). Review of the Literature Regarding Critical Information Needs of the American Public. Washington, DC: Federal Communications Commission.
- Cole, J., Suman, M., Schramm, P., Zhou, L., Salvador, A., Ognyanova, K., & Lebo, H. (2012). The World Internet Project: International Report 2012. Los Angeles, CA: USC Annenberg School Center for the Digital Future.
- Cole, J., Suman, M., Schramm, P., Zhou, L., Salvador, A., Ognyanova, K., & Lebo, H. (2011). The World Internet Project: International Report 2011. Los Angeles, CA: USC Annenberg School Center for the Digital Future.
- Cole, J., Suman, M., Schramm, P., Zhou, L., Salvador, A., Ognyanova, K., & Lebo, H. (2011). The 2011 Digital Future Report. Ten Studies 2000-2010: A Portrait of Americans on the Internet. Los Angeles, CA: USC Annenberg School Center for the Digital Future.

Totin, A., Markov, D., Ognyanova, K., Dimov, M., Georgiev, S., Yalamov, T., Hristov, H., & Tzvetanov, T. (2006). E-Bulgaria 2006. Sofia, Bulgaria: Applied Research and Communications Fund.

Totin, A., Markov, D., Ognyanova, K., Mirski, K., Sirakov, L., Yordanova, M., Stefanov, R., & Yalamov, T. (2005). E-Bulgaria 2005. Sofia, Bulgaria: Applied Research and Communications Fund.

CONFERENCE PRESENTATIONS

- Ognyanova, K., Lazer, D., Neblo, M., Minozzi, W., & Rubineau, B. (2014). *What you know and who you know: Discussion networks and political knowledge*. Paper presented at the Political Networks Conference, Montreal, CA.
- Ognyanova, K., Lazer, D., Neblo, M., Minozzi, W., & Rubineau, B. (2014). *Ties that bind across contexts: personality and the evolution of multiplex networks*. Paper presented at the NetSci Annual Conference, Berkeley, CA.
- Lazer, D., Ognyanova, K., Neblo, M., Minozzi, W., & Rubineau, B. (2014). *The social control of political participation: Conflict and contagion as processes (de)mobilizing voting*. Paper presented at the Midwest Political Science Association Convention, Chicago, IL.
- Ognyanova, K. (2014). *Dynamic agenda-convergence networks: Predictors of homogeneity in news content across outlets and sectors*. International Network for Social Network Analysis (INSNA) Sunbelt Conference, St. Petersburg, FL.
- Kimura, J., Ognyanova, K., Beacom, A. (2014). *Using Network Analysis of Patient Referral Pathways to Guide Health Care Utilization Management Strategy*. International Network for Social Network Analysis (INSNA) Sunbelt Conference, St. Petersburg, FL.
- Weber, M., Lazer, D., Ognyanova, K., Kosterich, A. (2014). *Utilizing Large Scale Archival Internet Data to Study Organizational Interaction*. International Network for Social Network Analysis (INSNA) Sunbelt Conference, St. Petersburg, FL.
- Ognyanova, K. (2013). *Media Fragmentation and Thematic Homogeneity: Predictors of Agenda Convergence in Online and Offline News Content*. National Communication Association (NCA) Annual Conference, Washington, DC.
- Ognyanova, K. (2013). *Dynamic agenda-convergence networks: Predictors of homogeneity in news content across outlets and sectors*. USC Annenberg Graduate Fellowship Program Research and Creative Project Symposium, Los Angeles, CA.
- Ognyanova, K. (2012). *Political Efficacy on the Internet: A Media System Dependency Approach*. National Communication Association (NCA) Annual Conference, Orlando, FL. Top Paper, Political Communication Division.
- Ognyanova, K., Chen, N.-T. N., An, Z., Son, M., Ball-Rokeach, S. J., Parks, M., & Gerson, D. (2012). *Online Participation in a Community Context: Patterns of Civic Engagement and Connections to Local Communication Resources*. International Communication Association (ICA) Annual Conference, Phoenix, AZ.
- Chen, N.-T. N., Ognyanova, K., Zhao, N., Liu, W., Gerson, D., Ball-Rokeach, S. J., & Parks, M. (2012). *Communication and socio-demographic forces shaping civic engagement patterns in a multiethnic neighborhood*. International Communication Association (ICA) Annual Conference, Phoenix, AZ.
- Ognyanova, K., & Monge, P. (2012). *A Multilevel, Multidimensional Network Model of the Media System: Production, Content, and Audiences*. International Network for Social Network Analysis (INSNA) Sunbelt Conference, Redondo Beach, CA.

- Huang, M., Margolin, D., Ognyanova, K., Huang, Y., & Contractor, N. (2011). *Understanding and Enabling Network Dynamics in Virtual Communities*. Academy of Management (AOM) Annual Conference, San Antonio, TX.
- Ball-Rokeach, S. J., & Ognyanova, K. (2011). *The Impact of Digital Media on Political and Civic Engagement: Do Digital Media Matter?* Association for Education in Journalism and Mass Communication (AEJMC) Annual Conference, St. Louis, MO.
- Ball-Rokeach, S. J., Parks, M., Chen, N.-T. N., Ognyanova, K., Liu, W., & Zhao, N. (2011). *The Alhambra project: Empowering urban community building through a research-driven local news website*. International Association for Media and Communication Research (IAMCR) Annual Conference, Istanbul, Turkey.
- Ognyanova, K. (2011) *Actors and Links in the Media System: Applying a Network Perspective to the Study of Media Production, Content and Audience*. International Communication Association (ICA) Annual Conference, Boston, MA.
- Ognyanova, K. (2011) *Appropriation of News Media Content: A Key Mode of Online Participation*. International Communication Association (ICA) Annual Conference, Boston, MA.
- Huang, M., Huang, Y., Contractor, N., Margolin, D., Ognyanova, K., & Shen, C. (2011). *Social Networks in R&D, the Public Sector, and for Entrepreneurship*. Communities & Technologies 2011, Brisbane, Australia.
- Ognyanova, K., Chen, N-T. N., Ball-Rokeach, S. J., & Parks, M. (2011). *Alhambra Source: Enhancing Civic Engagement in A Multiethnic Community*. USC GPSS Poster Symposium, Los Angeles, CA. First place award in the Social Science category.
- Ognyanova, K. (2010). *Media Transformations and Public Opinion: Agenda-Setting in a Digital Age*. National Communication Association (NCA) Annual Conference, San Francisco, CA.
- Ball-Rokeach, S. J., Parks, M., Chen, N-T. N., & Ognyanova, K. (2010). *Building new media bridges across ethnicity en route to increased civic engagement*. National Communication Association (NCA) Annual Conference, San Francisco, CA.
- Huang, M., Huang, Y., Margolin, D., Ognyanova, K., Shen, C., & Contractor, N. (2010). *The Effects of Diversity and Repeat Collaboration on Performance In Distributed Nanoscientist Teams*. Academy of Management (AOM) Annual Conference, Montreal, QC, Canada. OCIS Carolyn Dexter Award Nominee.
- Ognyanova, K., Margolin, D., Shen, C., Huang, M., Huang, Y., & Contractor, N. (2010) *Team assembly and scientific collaboration on NanoHub*. International Network for Social Network Analysis (INSNA) Sunbelt Conference, Riva del Garda, Trento, Italy.
- Huang, M., Huang, Y., Margolin, D., Ognyanova, K., Shen, C., & Contractor, N. (2010). *Size, Diversity, & Beyond: A Mediated Model of Team Composition and Performance in "Team Science"*. International Communication Association (ICA) Annual Conference, Singapore.
- Ognyanova, K. (2010) *Talking Past Each Other: Academic and Media Framing of Literacy*. USC Annenberg Graduate Fellowship Program Research and Creative Project Symposium, Los Angeles, CA.
- Ognyanova, K. (2009) *Careful What You Say: Media Control In Putin's Russia – Implications for Online Content*. International Communication Association (ICA) Annual Conference, Chicago, IL.
- Ognyanova, K. (2009) *Media Agenda in the Digital Age: Challenges of a New Information Environment*. USC Annenberg Graduate Fellowship Program Research & Creative Project Symposium, Los Angeles, CA.

INVITED TALKS

- Ognyanova, K. (2014) *Network visualization with Gephi*. Workshop at the NULab for Texts, Maps, and Networks, Northeastern University, Boston, MA.
- Ognyanova, K. (2013) *Thinking with Networks*. Invited talk at the Boston Data Day Skill-a-thon, Boston, MA.
- Ognyanova, K., Gonzalez, C., & Ball-Rokeach, S. J. (2012). *Defining Diversity - A Communication Ecology Approach*. Invited presentation, Redefining Diversity in a Digital Age Forum, Los Angeles, CA.
- Ognyanova, K. (2011) *Network data representation and visualization, tools and techniques*. Invited presentation, Annenberg Networks Network, Los Angeles, CA.
- Ball-Rokeach, S. J., Ognyanova, K., & Villanueva, G. (2010). *Metamorphosis: Research in Action*. Invited presentation, Art Center College of Design, Los Angeles, CA.
- Ognyanova, K., Shen, C., & O'Brien, N. (2009) *NanoHub: Longitudinal Network Analysis*. Invited presentation, VOSS Meeting, Northwestern University, Evanston, IL.

PROFESSIONAL AFFILIATIONS

- Association for Education in Journalism and Mass Communication (AEJMC)
- International Communication Association (ICA)
- International Network for Social Network Analysis (INSNA)
- National Communication Association (NCA)

SERVICE

- Reviewer: Annual Convention of the International Communication Association (ICA)
- Reviewer: Annual Convention of the National Communication Association (NCA)
- Reviewer: International Journal of Communication (IJoC)
- Reviewer: International Journal of E-Politics (IJEP)
- Reviewer: Mass Communication and Society (MC&S)
- Programming committee: WWW 2014, Web Science Track
- Panelist: 2011 Professionalism Training Workshop on Doctoral Qualifying Examinations, USC Annenberg School for Communication and Journalism
- Panelist: 2010-2012 Research Center Workshop for Incoming Doctoral Students, USC Annenberg School for Communication and Journalism

STATISTICAL SOFTWARE SKILLS

- **Statistical Analysis:** R, SPSS, Stata, LISREL & PRELIS, AMOS
- **Network Analysis & Visualization:**
Analysis: iGraph, NetworkX, NWB, Pajek, PNet family, Siena, Statnet, Ucinet
Visualization: Gephi, NDTV, NodeXL, Visone, yEd Graph Editor