YU-RU LIN

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Research Interests

Computational social science and data science toward understanding human social and political behaviors as part of a social-information ecosystem. Computational approaches for analyzing, mining, and visualizing social-information ecosystems through large-scale, time-varying, heterogeneous, multi-relational, and semi-structured data.

Appointments

2023-Present **Research and Academic Director**
Institute for Cyber Law, Policy, and Security, University of Pittsburgh (Pitt Cyber)

2018-Present **Associate Professor**
School of Computing and Information, University of Pittsburgh
Primary appointment: Department of Informatics and Networked Systems
Secondary appointments: Intelligent Systems Program (ISP), Computer Science Department, and Political Science Department, University of Pittsburgh

2019-2020 **Visiting Professor / Research Scientist**
Computational Social Science / Core Data Science at Facebook

2013-2018 **Assistant Professor**
School of Computing and Information, University of Pittsburgh

2012-2013 **Assistant Research Professor**
College of Social Sciences and Humanities, Northeastern University

Education

2010-2012 **Postdoctoral Research Fellow**
College of Computer and Information Science, Northeastern University
Institute for Quantitative Social Science, Harvard University
Supervisor: Dr. David Lazer

2010 **Ph.D. in Computer Science**,
with concentration in **Arts, Media and Engineering**
Arizona State University, Tempe, AZ
Dissertation: *Community Discovery in Dynamic, Rich-context Social Networks*
Advisor: Dr. Hari Sundaram

2001 **B.S./M.S. in Computer and Information Science**
National Chiao Tung University, Taiwan
Thesis: *The Synthesis of Trees in Chinese Landscape Painting*
Advisor: Dr. Zen-Chung Shih

Honors and Awards

2024   **Most Influential Scholar Award Honorable Mention**, The AI2000 Most Influential Scholar for outstanding and vibrant contributions to the field of Visualization between 2013 and 2023.

2022   **Partnerships of Distinction Award**, which recognizes outstanding partnerships that are exemplars of community engagement. Our "Allegheny County Policing Project" was recognized by using data analysis to address structural racism in Pittsburgh and beyond, to bring more transparency to the police accountability process at the local level.

2020   **Most Influential Scholar Award Honorable Mention**, The AI2000 Most Influential Scholar for outstanding and vibrant contributions to the field of Visualization between 2009 and 2019.

2019
2015, 2017   **Faculty Honoree, University of Pittsburgh**
Selected by Pitt's Honors Convocation, which honors the University Scholars who attain the top two percent in cumulative academic standing by school.

2017   **Service Award**, The 2017 International Conference on Social Computing, Behavioral-Cultural Modeling, and Prediction (SBP-BRiMS 2017)

2014   **Fellow of Kavli Frontiers of Science, National Academy of Sciences (NAS)**
Selected as a fellow of Kavli Frontiers of Science and was invited to participate in the 2014 Kavli Frontiers of Science symposium in Tokyo, Japan, co-sponsored by the Japan Society for the Promotion of Sciences and the National Academy of Sciences (NAS).

2011, 2012   **NSF Political Networks Fellowship**, 2011 and 2012

2011   **2011 Outstanding Ph.D. Student Award in Computer Science, Arizona State University**
Selected by the CIDSE (School of Computing, Informatics, and Decision Systems Engineering) Graduate Committee as the 2011 Outstanding Ph.D. Student in Computer Science.

2009   **IBM Ph.D. Fellowship Award (Academic year: 2009-2010)**
IBM Ph.D. Fellowship Program, a worldwide program which honors Ph.D. students who have an interest in solving problems fundamental to innovation.

2008   **Emerging Leaders in Multimedia**
Emerging Leaders in Multimedia Fourth Annual Watson Workshop, IBM T. J. Watson Research Center, Hawthorne, NY, 2008.

2007, 2008   **PhD Student Excellence Awards (Academic years: 2007-2008, 2008-2009)**
School of Arts, Media and Engineering, Arizona State University
Supported through the Kauffman Campuses Initiative, for students who exemplify the entrepreneurial and innovative nature of interdisciplinary research.

Research Paper Awards

2021   **Best Paper Award for 2020**
Policy Flow: Interpreting Policy Diffusion in Context, in ACM Transactions on Interactive Intelligent Systems

2017   **Best Student Paper Award**
Quantifying Content Polarization on Twitter, in Proceedings of 2017 IEEE International Conference on Collaboration and Internet Computing (IEEE CIC 2017)

2016   **Best Paper Award**
The Dynamics of Group Risk Perception in the US After Paris Attacks, in the 8th International

Conference on Social Informatics (SocInfo 2016)

2015   **Best Paper Honorable Mention Award**
What Makes Hyper-Local Online Discussion Forums Sustainable?, in the 48th Annual Hawaii International Conference on System Sciences (HICSS 2015)

2014   **Best Paper Honorable Mention Award**
#FluxFlow: Visual Analysis of Anomalous Information Spreading on Social Media, in IEEE Conference on Visual Analytics Science and Technology (IEEE VAST 2014)

2002   **Best Paper Award**
Chinese Ink Rendering for Trees Using Outline Drawing and Texture Strokes, in Proceedings of 2002 International Workshop on Advanced Image Technology (IWAIT).

GRANTS

Grants for which I serve as PI or co-PI

2023   **PI**: NSF BCS/HNDS, $319,908, 2023–2026
Collaborative Research: HNDS-I: Digitally Accountable Public Representation (Total combined awards: $969,288, in collaboration with Pennsylvania State University)

2023   **PI**: Air Force Office of Scientific Research (AFOSR), $749,476 (estimated), 2023–2026
The Network Theory of Credence

2023   **PI**: Minerva-DECUR Partnership competition, $399,775, 2023–2025
Characterizing and Countering the Normalization of Extremism and Communal Violence in Cyber-Social Space (with Co-PIs: Rebecca Hwa, University of Pittsburgh, and Deborah Wheeler and Andrew Miller from the United States Naval Academy)

2023   **PI**: Meta Foundational Integrity & Social Impact Research, $99,992.00, 2023–
Identifying Macro and Micro Factors in Spreading Conspiratorial Content (with Co-PI: Amin Rahimian)

2022   **PI**: Pitt Cyber Accelerator Grants, $17,495, 2022–
A Sampling and Modeling Framework to Counter Online Conspiratorial Propaganda (with Co-PIs: Balaji Palanisamy, Michael Colaresi, Amin Rahimian)

2022   **PI**: Computational Analysis Project, Collaboratory Against Hate: Research and Action Center, $100,002, 2022–
Linking Online Conspiracy to Offline Hate Mobilization (with Co-PI: Kathleen Carle, Carnegie Mellon University)

2022   **PI**: Pitt Momentum Teaming Grant, $59,962, 2022–2023
Cultural Representativeness in the Principles of AI (with Co-PIs: Morgan Frank, Edouard Machery, Ben Rottman, and Heath Cabot)

2021   **PI**: Google Faculty Awards, $10,000, 2021–
Cultivating Ethical Competence of The Next-Gen AI Workforce (with Co-PIs: Malihe Alikhani, Diane Litman, Rosta Farzen, and Rebecca Hwa)

2020   **Co-PI**: DARPA HABITUS Program, $5,669,295 (estimated), 2021–2024
HEURISTICS: Hyperlocal Elicitation and Understanding of Risks to Stability In Complex Systems (PI: Paul Cohen)

2020   **PI**: Air Force Office of Scientific Research (AFOSR), $80,000, 2020–2021
Linking Online Engagement to Pandemic Responses

2020   **PI**: NSF IIS, $104,491, 2020–2021
RAPID: Countering COVID-19 Misinformation via Situation-Aware Visually Informed Treatment
(with Co-PI: Adriana Kovashka and Wen-Ting Chung)

2020   **PI**: Air Force Office of Scientific Research (AFOSR), $229,038, 2019–2022
Linking Online Attention to Measurable Actions

2019   **Co-PI**: Social Science Research Initiative, University of Pittsburgh, $49,620, 2019–2020
The Vulnerability of Social Learning to Digital Disinformation (with PI Michael Colaresi, Co-PIs
Prashant Krishnamurthy, Jonathan Woon, Sera Linardi, and Park Baekkwan)

2019   **PI**: NSF IIS/Cyber-Human Systems, $20,000, 2019–2020
*Doctoral Consortium for the International Conference on Social Computing, Behavioral-Cultural
Modeling & Prediction and Behavior Representation in Modeling and Simulation*

2019   **PI**: Adobe Research Gift Fund, $10,000, 2019–

2018   **PI**: DARPA Understanding Group Biases (UGB) Disruptioneering Program, $912,072, 2018–
2019
TRIBAL: A Tripartite Model for Group Bias Analytics (with Co-PIs: Rebecca Hwa and Wen-Ting
Chung)

2017   **PI**: Amazon Web Services (AWS) Research Grants, $10,000, 2017–2018

2016   **PI**: NSF Infrastructure Management & Extreme Events (IMEE), $181,012, 2016–2018
*Collaborative Research: Collective Sense Making Following a Terrorist Attack: The Immediate and
Long-Term Impact on Public Resilience* (with Co-PI: Louise Comfort; Total combined awards:
$359,067, in collaboration with Cornell University)

2016   **PI**: NSF Data Infrastructure, $188,369, 2016–2019
RIDIR: Collaborative Research: DAPPR: Diffusion Analytics for Public Policy Research (Total combined awards: $808,128, in collaboration with University of Iowa, Pennsylvania State University, University of Notre Dame, Saint Louis University, George Mason University, and West
Virginia University)

2016   **PI**: Multidisciplinary Research Grant Competition in Industry Studies, University of Pittsburgh,
$20,000, 2016–2017
Transnational Organized Crime and Terrorism: Enhancing Intelligence and Policy Responses (with
Thomas Congedo and Phil Williams)

2015   **PI**: Undergraduate Research Award, University of Pittsburgh, $4,000, 2015–2016
Facilitating Local Sense-making via Real-Time Data Analytics and Storytelling

2015   **Co-PI**: Central Research Development Fund (CRDF), University of Pittsburgh, $15,274, 2016–
2017
Quantifying The Impact of Social Ties on Health Disparities in Disadvantaged Neighborhoods Using Social Media Streams (with PI: Jaime Booth)

2014   **PI**: NSF Social Psychology BCS, $21,253, 2014–2016
Collaborative Research: Threat Perception After the Boston Marathon Bombing (Total combined
awards: $326,430, in collaboration with Northeastern University)

2014   **PI**: Central Research Development Fund (CRDF), University of Pittsburgh, $15,750, 2015–2016
Assessing the "Neighborhood Effect" With Social Media Traces

2013   **PI**: Amazon Web Services in Education Research Grant Award, $5,000, 2013–2014

Other Grants

2017   **Senior Personnel**: NSF CNS Smart and Connected Communities (S&CC), $1,439,999, 2017–2020
CPS: TTP Option: Synergy: Collaborative Research: Building a Smart City Economy to Motivate Pro-Social Transportation Behavior (PI: Alexandros Labrinidis)

2017   **Training Faculty**: NIH T32: Technology Research in Chronic and Critical Illness, $1,026,341 (estimated), 2017–2022 (PI: DeVito Dabbs)

Teaching Experience

2022-Present   *Advanced Data Mining*
Graduate Course: INFSCI 2165, University of Pittsburgh
course website: https://yurulin.github.io/class-adv-data-mining/

2021-Present   *FATE: Fairness, Accountability, Transparency, and Ethics in AI (formerly Fairness in Machine Learning)*
Graduate Course: INFSCI 2935, University of Pittsburgh
course website: https://yurulin.github.io/class-fairness-ml/

2018 Fall   *Doctoral Seminar: Data-Driven Decision Making: Validity & Accountability*
Graduate Course: INFSCI 3350, University of Pittsburgh

2014-2019   *Information Visualization*
Graduate Course: INFSCI 2415 / LIS 2690, University of Pittsburgh

2013-Present   *Data Mining*
Graduate Course: INFSCI 2160, University of Pittsburgh
course website: https://yurulin.github.io/class-data-mining/

2015 Spring   *Doctoral Seminar: Social Networks and Graph Analysis*
Graduate Course: INFSCI 3350, University of Pittsburgh

2014-Present   *Research Seminar: Data Science*
Graduate Course: INFSCI 3250, University of Pittsburgh

Invited Lecturer

2012 Summer   *Network Analysis Research Methodology*
Summer Dissertation Workshop in World History, Northeastern University

2012   *Network Visualization*
Northeastern/MIT/Harvard Computational Social Science 2012 Workshop
Organizer: David Lazer; Instructors: Derek Ruths (McGill University), Yu-Ru Lin (Northeastern/Harvard Universities) and Alex Pentland (Human Dynamics Lab, MIT)

2012 Spring   *The Networked Society*
College Honors Course: HONR 3343, Northeastern University

Design and conduct three-week lectures covering network data analysis and visualization; advice students on assignments and term projects

OTHER INDUSTRY EXPERIENCE

2008 Summer **Research Intern**
IBM T.J Watson Research Center, Hawthorne, NY   Supervisor: Dr. Ravi B. Konuru

2006 Summer, **Research Intern**
2007 Summer NEC Labs America, Cupertino, CA   Supervisor: Dr. Belle L. Tseng

2001-2004 **Software Engineering Supervisor / Algorithm Specialist**
Advance and Innovation Center, Ulead Systems, Inc., Taiwan

PUBLICATIONS

Electronic copies of my publications can be downloaded at: http://yurulin.com/pub.html

Research theme indicator:

A : Analysis of human and social dynamics
M : Data mining
V : Visual analytics and interactive systems

∗: co-authors were students when the paper was submitted (for publications after 2011).

Journal Articles

Journal impact factors are listed in brackets if available.

[J1] Ahn, Y.∗ & **Lin, Y.-R.** (2024) "Break Out of a Pigeonhole: A Unified Framework for Examining Miscaliberation, Bias and Stereotype in Recommender Systems," ACM Transactions on Intelligent Systems and Technology (TIST) **[10.49]**   A M

[J2] Teng, X.∗, Ahn, Y.∗, and **Lin, Y.-R.** (2023), "VISPUR: Visual Aids for Identifying and Interpreting Spurious Associations in Data-Driven Decisions," IEEE Transactions on Visualization and Computer Graphics (TVCG) **[5.23]**   M V

[J3] **Lin, Y.-R.**, Wu, S., Mason, W. (2023), "Mapping Language Literacy At Scale: A Case Study on Facebook" EPJ Data Science **[3.63]**   A M

[J4] Li, A.∗, Farzan, R., **Lin, Y.-R.**, Zhou, Y.∗, Teng, X.∗, Yan, M.∗(2022), "Identifying and Understanding Social Media Gatekeepers: A Case Study of Gatekeepers for Immigration Related News on Twitter," Proceedings of the ACM on Human-Computer Interaction, Volume 6, Issue CSCW2, Article No. 304, pp 1–25   A

[J5] Ahn, Y.∗, Yan, M.∗, **Lin, Y.-R**, Chung, W.-T., Hwa, R. (2022), "Tribe or Not? Critical Inspection of Group Differences Using TribalGram," ACM Transactions on Interactive Intelligent Systems (TiiS), 12(1): 1–34.   M V

[J6] Teng, X.∗, Pei, S., **Lin, Y.-R.** (2021), "StoCast: Stochastic Disease Forecasting with Progression Uncertainty," IEEE Journal of Biomedical and Health Informatics (JBHI), 25(3), 850–861 **[6.74]**   M

[J7] **Lin, Y.-R.**, Chung, W.-T. (2020), "The Dynamics of Twitter Users' Gun Narratives across Major Mass Shooting Events," Nature Humanities and Social Sciences Communications, 7(1), 46   A

[J8] Ahn, Y.∗, **Lin, Y.-R.** (2020), "PolicyFlow: Interpreting Policy Diffusion in Context," ACM Transactions on Interactive Intelligent Systems (TiiS), 10(2), 13:1–13:23 **[Annual Best Paper Award]**   M V

[J9] Zhang, J.∗, Wang, W.∗, Xia, F., **Lin, Y.-R.**, Tong, H. (2020), "Data-Driven Computational Social Science: A Survey," Big Data Research, 100145   A M

[J10] Javadi, S.∗, **Lin, Y.-R.**, Pelechrinis, K. (2019), "Learning Embeddings for Multiplex Networks Using Triplet Loss," Applied Network Science, 4(1), 125.   M

[J11] Ahn, Y.∗, **Lin, Y.-R.** (2019), "FairSight: Visual Analytics for Fairness in Decision Making," IEEE Transactions on Visualization and Computer Graphics (TVCG) **[3.78]**   M V

[J12] Ertugrul, A.∗, **Lin, Y.-R.**, Chung, W.-T., Yan, M.∗, Li, A.∗(2019), "Activism via Attention: Interpretable Spatiotemporal Learning to Forecast Protest Activities," EPJ Data Science **[3.04]**   A M

[J13] Wormwood, J., **Lin, Y.-R.**, Lynn, S., Barrett, L., Quigley, K. (2019). "Psychological Impact of Mass Violence Depends on Affective Tone of Media Content," PLoS One, 14(4), e0213891   A

[J14] Wen, X.∗, **Lin, Y.-R.**, Pelechrinis, K. (2018), "Event Analytics via Discriminant Tensor Factorization," ACM Transactions on Knowledge Discovery from Data (TKDD), 12(6), 72   M

[J15] Lin, C.*, Zhu, Q.*, Guo, S.*, Jin, Z.*, **Lin, Y.-R.**, Cao, N. (2018), "Anomaly Detection in Spatial-Temporal Data via Regularized Non-Negative Tensor Analysis," Data Mining and Knowledge Discovery (DAMI), 32(4), 1056-1073 **[3.16]** `M`

[J16] Booth, J., **Lin, Y.-R.**, Wei, K.*(2018), "Neighborhood Disadvantage, Residents' Distress, and Online Social Communication: Harnessing Twitter Data to Examine Neighborhood Effects," Journal of Community Psychology (JCOP), 46(7), 829–843 `A`

[J17] He, X.*, **Lin, Y.-R.** (2017), "Measuring and Monitoring Collective Attention During Shocking Events," EPJ Data Science, 6(30) **[3.04]** `A` `M`

[J18] **Lin, Y.-R.**, Margolin, D., Wen, X.*(2017), "Tracking and Analyzing Individual Distress Following Terrorist Attacks Using Social Media Streams," Risk Analysis, 37(8), pp. 1580–1605 `A`

[J19] **Lin, Y.-R.**, Kennedy, R., Lazer, D. (2017), "The Geography of Money and Politics in the U.S.: Population Density, Social Networking and Political Contributions," Research & Politics 4(4) `A`

[J20] Cao, N., Lin, C.*, Zhu, Q.*, **Lin, Y.-R.**, Teng, X.*, Wen, X.*(2018), "Voila: Visual Anomaly Detection and Monitoring with Streaming Spatiotemporal Data," to appear in IEEE Transactions on Visualization and Computer Graphics (TVCG), 24(1), pp. 23–33 (also to appear in Proceedings of IEEE VAST 2017) `M` `V`

[J21] Lopez, C., Farzan, R., **Lin, Y.-R.** (2017). "Behind the Myths of Citizen Participation: Identifying Sustainability Factors of Hyper-Local Information Systems," ACM Transactions on Internet Technology (TOIT), 18(1) `A`

[J22] Cao, N., **Lin, Y.-R.**, Gotz, D., Du, F.*(2017), "Z-Glyph: Visualizing Outliers in Multivariate Data," Information Visualization (first published online in 2017) `V`

[J23] Li, L.*, Tong, H., Cao, N., Ehrlich, K., **Lin, Y.-R.**, Buchler, N. (2017), "Enhancing Team Composition in Professional Networks: Problem Definitions and Fast Solutions," IEEE Transactions on Knowledge and Data Engineering (TKDE), 29(3), pp. 613–626 **[2.48]** `M`

[J24] Lu, Z., **Lin, Y.-R.**, Huang, X.*, Xiong, N. and Fang, Z.*(2016), "Visual Topic Discovering, Tracking and Summarization from Social Media Streams," Multimedia Tools and Applications, Springer `M`

[J25] Cao, N., Shi, C., Lin, S., Lu, J., **Lin, Y.-R.**, Lin, C.-Y. (2016), "TargetVue: Visual Analysis of Anomalous User Behaviors in Online Communication Systems," IEEE Transactions on Visualization and Computer Graphics (TVCG), 22(1), pp. 280–289 (also Proceedings of IEEE VAST 2015) `V`

[J26] Cao, N., **Lin, Y.-R.**, Du, F.*, Wang, D. (2016). "Episogram: Visual Summarization of Egocentric Social Interactions," IEEE Computer Graphics and Applications (CG&A), 36(5), pp. 72–81 `V`

[J27] Parra, D., Trattner, C., Gomez, D.*, Hurtado, M.*, Wen, X.*, **Lin, Y.-R.** (2016), "Twitter in Academic Events: A Study of Temporal Usage, Communication, Sentimental and Topical Patterns in 16 Computer Science Conferences Computer Communications," Computer Communications, Volume 73, pp. 301–314 **[3.34]** `A`

[J28] **Lin, Y.-R.**, Margolin, D. and Lazer, D. (2015). "Uncovering Social Semantics from Textual Traces: A Theory-Driven Approach and Evidence from Public Statements of U.S. Members of Congress," Journal of the Association for Information Science and Technology (JASIST), 67(9), pp. 2072–2089 **[2.23]** `A` `M`

[J29] Toole, J.*, **Lin, Y.-R.**, Muehlegger, E., Shoag, D., Gonzalez, M., Lazer, D. (2015), "Tracking Employment Shocks Using Mobile Phone Data," Journal of the Royal Society Interface (J. R. Soc. Interface), 12(107) **[3.9]** `A`

[J30] Cao, N., **Lin, Y.-R.** and Gotz, D. (2015). "UnTangle Map: Visual Analysis of Probabilistic Multi-Label Data," IEEE Transactions on Visualization and Computer Graphics (TVCG), 22(1), pp. 1149–1163 `M` `V`

[J31] Margolin, D., Goodman, S., Keegan, B., **Lin, Y.-R.**, Lazer, D. (2015). "Wiki-Worthy: Collective Judgment of Candidate Notability," Information, Communication and Society, 19(8), pp. 1029–1045 `A`

[J32] **Lin, Y.-R.** and Margolin, D. (2014). "The Ripple of Fear, Sympathy and Solidarity During the Boston Bombings," EPJ Data Science (2014) 3(1), pp. 31   A

[J33] **Lin, Y.-R.**, Keegan, B., Margolin, D. and Lazer, D. (2014). "Rising Tides or Rising Stars?: Dynamics of Shared Attention on Twitter During Media Events," PLoS ONE 9(5): e94093 (May 2014)   A

[J34] Zhao, J.*, Cao, N., Zhen, W., Song, Y.*, **Lin, Y.-R**, and Collins, C. (2014), "#FluxFlow: Visual Analysis of Anomalous Information Spreading on Social Media," IEEE Transactions on Visualization and Computer Graphics, 20(12), pp. 1773–1782 (also Proceedings of IEEE VAST 2014)   V

[J35] Cao, N., Lu, L.*, **Lin, Y.-R**, Wang, F. and Zhen, W. (2014), "SocialHelix: Visualization of Sentiment Divergence in Social Media," Journal of Visualization, 18(2), pp. 221–235, Springer 2014   V

[J36] Jin, L.*, Zhang, K., Lu, J. and **Lin, Y.-R** (2014), "Towards Understanding the Gamification upon Users' Scores in a Location-based Social Network," Multimedia Tools and Applications, pp. 1–-25, Springer 2014   A

[J37] **Lin, Y.-R.**, Margolin, D. and Lazer, D. (2014). "Tracing Coordination and Cooperation Structures via Semantic Burst Detection," EAI Transactions on Collaborative Computing 14(2): e7   A M

[J38] Jin, L.*, Long, X.*, Zhang, K.*, **Lin, Y.-R**, and Joshi, J. (2014). "Characterizing Users' Check-in Activities Using Their Scores in a Location-based Social Network Multimedia Systems," Multimedia Systems, 22(1), pp. 87–98, Springer (June 2014)   A M

[J39] Bagrow, J. P. and **Lin, Y.-R.** (2012), "Mesoscopic structure and social aspects of human mobility," PLoS ONE 7(5): e37676. **[4.41]**   A M

[J40] Cao, N.*, **Lin, Y.-R.**, Sun, X., Lazer, D., Liu, S. and Qu, H. (2012), "Whisper: Tracing the Spatiotemporal Process of Information Diffusion in Real Time," IEEE Transactions on Visualization and Computer Graphics (also Proceedings of InfoVis 2012), Volume 18, Issue 12, pp. 2649–2658 (Dec. 2012) **[2.63]**   V

[J41] Sundaram, H., Xie, L., Choudhury, M. D., **Lin, Y.-R.** and Natsev, A. (2012), "Multimedia Semantics: Interactions between Content and Community," Proceedings of the IEEE (IEEEP), special issue on "Web-Scale Multimedia Processing and Applications," Volume 100, Issue 9, pp. 2737–2758 (Sept. 2012) **[6.81]**   M

[J42] **Lin, Y.-R.**, Sundaram, H., Choudhury, M. D. and Kelliher, A. (2012), "Discovery Multi-relational Structure in Social Media Streams," ACM Transactions on Multimedia Computing, Communications and Applications (TOMCCAP) Volume 8, Issue 1, Article No. 4 (February 2012) **[2.47]**   M V

[J43] Sundaram, H., **Lin, Y.-R.**, Choudhury, M. D. and Kelliher, A. (2012), "Understanding Structural and Temporal Dynamics in Online Social Networks," IEEE Signal Processing Magazine (SPM), Special Issue on Signal and Information Processing for Social Learning and Networking, Volume 29, Issue 2, pp. 33–40 (March 2012) **[4.07]**   M

[J44] Spicer, R., **Lin, Y.-R.**, Kelliher, A. and Sundaram, H. (2012), "NextSlidePlease: Authoring and Delivering Dynamic Multimedia Presentations," ACM Transactions on Multimedia Computing, Communications and Applications (TOMCCAP) Volume 8 Issue 4, Article No. 53 (November 2012) **[2.47]**   M V

[J45] **Lin, Y.-R.**, Candan, K. S., Sundaram, H. and Xie L. (2011), "SCENT: Scalable Compressed Monitoring of Evolving Multi-Relational Social Networks," ACM Transactions on Multimedia Computing, Communications and Applications (TOMCCAP) Volume 7S, No. 1, Article 29 (October 2011) **[2.47]**   M

[J46] **Lin, Y.-R.**, Sun, J., Sundaram, H., Kelliher, A., Castro, P. and Konuru, R. (2011), "Community Discovery via Metagraph Factorization," ACM Transactions on Knowledge Discovery from Data (TKDD) Volume 5 Issue 3, Article No. 17 (August 2011)   M

[J47] Cao, N., Sun, J., **Lin, Y.-R.**, Gotz, D., Qu, H. and Liu, S. (2010), "FacetAtlas: Multi-facet Visualization for Rich Text Corpora," IEEE Transactions on Visualization and Computer Graphics (also Proceedings of InfoVis 2010), Volume 16, No. 6, pp. 1172–1181, 2010. **[2.63]**   M V

[J48] **Lin, Y.-R.**, Chi, Y., Zhu, S., Sundaram, H. and Tseng, B. L. (2009), "Analyzing Communities and   M

Their Evolutions in Dynamic Social Networks," ACM Transactions on Knowledge Discovery from Data (TKDD), special issue on Social Computing, Behavioral Modeling, and Prediction, Volume 3, Issue 2, pp. 1–31 (April 2009)

[J49] **Lin, Y.-R.**, Sundaram, H., Chi, Y., Tatemura, J. and Tseng, B. L. (2008), "Detecting Splogs Via Temporal Dynamics Using Self-Similarity Analysis," ACM Transactions on the Web (TWEB) Volume 2, Issue 1, pp. 1–35 (February 2008) **[2.81]**   M

Book Chapters and Invited Articles

[B1] Pelechrinis, K., **Lin, Y.-R.** (2017). "Tensor-Based Analysis for Urban Networks. In Encyclopedia of Social Networks and Mining," Encyclopedia of Social Networks and Mining (ESNAM), Springer   M

[B2] **Lin, Y.-R.** (2015), "Event-related Crowd Activities on Social Media," Social Phenomena: From Data To Models (Editors: B. Gonçalves, N. Perra), Springer   A

[B3] Wang, D., **Lin, Y.-R.**, and Bagrow, J. P. (2014), "Learning Emergencies from Big Data," Encyclopedia of Social Networks and Mining (ESNAM), Springer 2014   A M

[B4] **Lin, Y.-R.**, Lazer, D. and Cao, N. (2013), "Watching How Ideas Spread Over Social Media," Special Section: Arts, Humanities and Complex Networks, Leonardo 2013, Vol. 46, No. 3   V

[B5] **Lin, Y.-R.**, Bagrow, J. P., and Lazer, D. (2012), "Quantifying Bias in Social and Mainstream Media," ACM SigWeb Letters, Issue Summer, 2012, Article No. 5   A M

[B6] **Lin, Y.-R.**, Sundaram, H. and Kelliher, A. (2010), "Multi-modal Characterization of Social Network Communities," Handbook of Social Networks Technologies and Applications, Springer 2010   M

Peer-reviewed Full Conference Papers

Papers with highly selective acceptance rates (<30%) are marked in bold. Acceptance rates are listed where information is available.

[C1] Yan, M.[*], Chiang, A. Y., & **Lin, Y.-R.** (2024), "From Posts to Pavement, or Vice Versa? The Dynamic Interplay Between Online Activism and Offline Confrontations," In Proceedings of the 18th International AAAI Conference on Web and Social Media (ICWSM 2024)   A M

[C2] Diab, A.[*], Rr, N.[*], & **Lin, Y.-R.** (2024), "Classifying Conspiratorial Narratives At Scale: False Alarms and Erroneous Connections," In Proceedings of the 18th International AAAI Conference on Weblogs and Social Media (ICWSM 2024)   A M

[C3] Ahn, Y.[*], Yan, M.[*], **Lin, Y.-R.**, & Wang, Z. (2023), "HungerGist: An Interpretable Predictive Model for Food Insecurity," in Proceedings of IEEE International Conference on Big Data, 2023 (IEEE BigData 2023)   M

[C4] Biswas, A.[*], Niven, T.[*], and **Lin, Y.-R.** (2023), "The Dynamics of Political Narratives During the Russian Invasion of Ukraine," Proceedings of the Social Computing, Behavioral-Cultural Modeling & Prediction and Behavior Representation in Modeling and Simulation (SBP-BRiMS 2023)   A

[C5] Ahn, Y.[*], **Lin, Y.-R.**, Xu, P., Dai, Zen (2023), "ESCAPE: Countering Systematic Errors from Machine's Blind Spots via Interactive Visual Analysis," Proceedings of the ACM SIGCHI Conference on Human Factors in Computing Systems (CHI 2023) **[28%]**   V

[C6] Diab, A.[*], Jagdagdorj, B. E.[*], Ng, L. H. X.[*], **Lin, Y.-R.**, Yoder, M. M. (2023), "Online to Offline Crossover of White Supremacist Propaganda," Companion Proceedings of the ACM Web Conference 2023 (pp. 1308-1316)   A

[C7] Yan, M.[*], Chung, W.-T., and **Lin, Y.-R.** (2022), "Are Mutated Misinformation More Contagious? A Case Study of COVID-19 Misinformation on Twitter," Proceedings of Web Science 2022 (WebSci 2022)   A M

[C8] Teng, X.[*], **Lin, Y.-R.**, Chung, W.-T., Li, A., Kovashka, A. (2022), "Characterizing User Suscepti-   A M

bility to COVID-19 Misinformation on Twitter," in Proceedings of the 16th International AAAI Conference on Web and Social Media (ICWSM 2022)

[C9] Ertugrul, A.*, Lee, J., Wu, S., **Lin, Y.-R.**, Xie, L. (2022), "Whose Advantage? Measuring Attention Dynamics across YouTube and Twitter on Controversial Topics," in Proceedings of the 16th International AAAI Conference on Web and Social Media (ICWSM 2022) `A`

[C10] Mesut Erhan, U.*, Kovashka, A., Chung, W.-T., and **Lin, Y.-R.** (2022), "Visual Persuasion in COVID-19 Social Media Content: A Multi-Modal Characterization," in Companion Proceedings of the Web Conference 2022 (pp. 694-704) `A` `M`

[C11] Guo, M.*, Hwa, R., **Lin, Y.-R.**, Chung, W.-T. (2020), "Inflating Topic Relevance with Ideology: A Case Study of Political Ideology Bias in Social Topic Detection Models," in Proceedings of The 28th International Conference on Computational Linguistics (COLING-2020) `M`

[C12] Yan, M.*, **Lin, Y.-R.**, Hwa, R., Ertugrul, M., Guo, M.*, Chung, W.-T. (2020), "Mimicprop: Learning to incorporate lexicon knowledge into distributed word representation for social media analysis," in Proceedings of the 14th International AAAI Conference on Weblogs and Social Media (ICWSM 2020) `M`

[C13] Wei, K.*, **Lin, Y.-R.**, Yan, M.*(2020), "Examining Protest as An Intervention to Reduce Online Prejudice: A Case Study of Prejudice Against Immigrants," in Proceedings of The Web Conference 2020 (WWW 2020) (Research Track; Oral Presentation) `A` `M`

[C14] Wen, X.*, **Lin, Y.-R.**, Ahn, Y.*, Pelechrinis, K., Liu, X.*, Cao, N. (2019), "FacIt: Factorizing Tensors into Interpretable and Scrutinizable Patterns," in IEEE Symposium on Visual Analytics Science and Technology (VAST 2019) `M` `V`

[C15] Ertugrul, A.*, **Lin, Y.-R.**, Temizel, T. (2019), "CASTNet: Community-Attentive Spatio-Temporal Networks for Opioid Overdose Forecasting," in Proceedings of Joint European Conference on Machine Learning and Knowledge Discovery in Databases (ECML PKDD 2019) (ADS Track) `M`

[C16] Wen, X.*, **Lin, Y.-R.**, Liu, X.*, Brusilovsky, P., Barria Pineda, J.*(2019), "Iterative Discriminant Tensor Factorization for Behavior Comparison in Massive Open Online Courses," in Proceedings of The Web Conference 2019 (WWW 2019) (Research Track) **[18%]** `M`

[C17] Chung, W.-T., **Lin, Y.-R.**, Li, A.*, Ertugrul, A.*, Yan, M.*(2018), "March with and without Feet: The Talking about Protests and Beyond," in Proc. of the 10th International Conference on Social Informatics (SocInfo 2018) `A`

[C18] Teng, X.*, Yan, M.*, Ertugrul, A.*, **Lin, Y.-R.** (2018), "Deep into Hypersphere: Robust and Unsupervised Anomaly Discovery in Dynamic Networks," in Proceedings of the 27th International Joint Conference on Artificial Intelligence (IJCAI 2018) **[20%]** `M`

[C19] Teng, X.*, **Lin, Y.-R.**, Wen, X.*(2017), "Anomaly Detection in Dynamic Networks Using Multi-View Time-Series Hypersphere Learning," in Proceedings of The 26th ACM International Conference on Information and Knowledge Management (CIKM 2017) **[21%]** `M`

[C20] Cao, N., Lin, C.*, Zhu, Q.*, **Lin, Y.-R.**, Teng, X.*, Wen, X.*(2017), "Voila: Visual Anomaly Detection and Monitoring with Streaming Spatiotemporal Data," in IEEE Symposium on Visual Analytics Science and Technology (VAST 2017) **[21%]** `M` `V`

[C21] Yang, M.*, Wen, X.*, **Lin, Y.-R.**, Deng, L. (2017), "Quantifying Content Polarization on Twitter," in Proceedings of 2017 IEEE International Conference on Collaboration and Internet Computing (IEEE CIC 2017) **[Best Student Paper Award]** `A` `M`

[C22] He, X.*, Lu, D.*, Margolin, D., Wang, M., Idrissi, S.*, **Lin, Y.-R.** (2017), "The Signals and Noise: Actionable Information in Improvised Social Media Channels During a Disaster," Proceedings of Web Science 2017 (WebSci 2017) `A` `M`

[C23] Du, F.*, Cao, N., **Lin, Y.-R.**, Xu, P., Tong, H. (2017), "iSphere: Focus+Context Sphere Visualization for Interactive Large Graph Exploration," Proceedings of the ACM SIGCHI Conference on Human Factors in Computing Systems (CHI 2017) **[25%]** `V`

[C24] Lopez, C., Farzan, R., **Lin, Y.-R.** (2017), "Connecting Neighbors: The Double-Edged Sword of Mobilization Messaging in Hyper-Local Online Forums," Proceedings of the 28th ACM Confer-

ence on Hypertext and Social Media (Hypertext 2017)

[C25] Chung, W.-T., Wei, K.*, **Lin, Y.-R.** and Wen, X.*(2016), "The Dynamics of Group Risk Percep- A
tion in the US After Paris Attacks," Proceedings of the 8th International Conference on Social
Informatics (SocInfo 2016) **[28%; Best Paper Award]**

[C26] Wen, X.*, **Lin, Y.-R.**, Pelechrinis, K. (2016), "PairFac: Event Analytics through Discriminant M
Tensor Factorization," Proceedings of The 25th ACM International Conference on Information
and Knowledge Management (CIKM 2016) **[17%]**

[C27] Wen, X.*, Lu, D.*, **Lin, Y.-R.**, Lopez, C. (2016). "The Roles of Information Seeking Dynamics in A
Sustaining the Community Participation," Proceedings of 2016 IEEE International Conference
on Collaboration and Internet Computing (IEEE CIC 2016) **[28%]**

[C28] Liu, Z.*, **Lin, Y.-R.**, Wang, M.*, Lu, Z. (2016), "Discovering Opinion Changes in Online Reviews M
via Learning Fine-Grained Sentiments," Proceedings of 2016 IEEE International Conference on
Collaboration and Internet Computing (IEEE CIC 2016) **[28%]**

[C29] Lu, Z., **Lin, Y.-R.**, Zhang, Q.*, Chen, M.*(2016), "Classifying Questions into Fine-grained cat- M
egories using Topic Enriching," Proceedings of 17th International Conference on Information
Reuse and Integration (IEEE IRI 2016) **[25%]**

[C30] Wen, X.*, **Lin, Y.-R.** (2016), "Sensing Distress Following A Terrorist Event," Proceedings of the A M
2016 International Conference on Social Computing, Behavioral-Cultural Modeling & Predic-
tion and Behavior Representation in Modeling and Simulation (SBP-BRiMS 2016)

[C31] Wang, M.*, **Lin, Y.-R.** (2016), "Link Prediction via Multi-Hashing Framework," Proceedings of M
the 2016 International Conference on Social Computing, Behavioral-Cultural Modeling & Pre-
diction and Behavior Representation in Modeling and Simulation (SBP-BRiMS 2016)

[C32] Jin, D.*, Wang, M.*, **Lin, Y.-R.** (2016), "TELELINK: Link Prediction in Social Network Based on M
Multiplex Cohesive Structures," Proceedings of the appear in 2016 International Conference on
Social Computing, Behavioral-Cultural Modeling & Prediction and Behavior Representation in
Modeling and Simulation (SBP-BRiMS 2016)

[C33] Zhang, K.*, **Lin, Y.-R.** and Pelechrinis, K. (2016), "EigenTransitions with Hypothesis Testing: M
The Anatomy of Urban Mobility," Proceedings of the 10th International AAAI Conference on
Weblogs and Social Media (ICWSM 2016) **[17%]**

[C34] Wen, X.*, **Lin, Y.-R.** (2015), "Information Seeking and Responding Networks in Physical Gath- A M
erings: A Case Study of Academic Conferences in Twitter," in The 2015 ACM Conference on
Online Social Networks (COSN 2015) **[26%]**

[C35] Cao, N., Shi, C., Lin, S., Lu, J., **Lin, Y.-R.**, Lin, C.-Y. (2015), "TargetVue: Visual Analysis of V
Anomalous User Behaviors in Online Communication Systems," in IEEE Symposium on Visual
Analytics Science and Technology (VAST 2015) **[22%]**

[C36] Li, L.*, Tong, H., Cao, N., Ehrlich, K., **Lin, Y.-R.** and Buchler, N. (2015), "Replacing the Irreplace- M
able: Fast Algorithms for Team Member Recommendation" in Proceeding of the International
Conference on World Wide Web (WWW 2015) **[14%]**

[C37] Cao, N., **Lin, Y.-R.**, Li, L.*and Tong, H. (2015), "g-Miner: Interactive Visual Group Mining on M V
Multivariate Graphs," in Proceedings of the ACM SIGCHI Conference on Human Factors in
Computing Systems (CHI 2015) **[23%]**

[C38] Du, F.*, Cao, N., Zhao, J.*and **Lin, Y.-R.** (2015), "Trajectory Bundling for Animated Transi- V
tions," in Proceedings of the ACM SIGCHI Conference on Human Factors in Computing Sys-
tems (CHI 2015) **[23%]**

[C39] Lopez, C.*, **Lin, Y.-R.** and Farzan, R. (2015), "What Makes Hyper-Local Online Discussion Fo- A
rums Sustainable?" in Proceedings of 48th Annual Hawaii International Conference on System
Sciences (HICSS 2015) **[Honorable Mention Award]**

[C40] **Lin, Y.-R**, Cao, N., Gotz, D., Lu, L.*(2014), "UnTangle: Visual Mining for Data with Uncertain M V
Multi-labels via Triangle Map," in Proceedings of 2014 IEEE International Conference on Data
Mining (ICDM 2014) **[9.7%]**

[C41] **Lin, Y.-R.** (2014). "Assessing Sentiment Segregation in Urban Communities," in Proceedings of the Seventh International Conference on Social Computing (SocialCom 2014)

[C42] Zhao, J.*, Cao, N., Zhen, W., Song, Y.*, **Lin, Y.-R**, and Collins, C. (2014), "#FluxFlow: Visual Analysis of Anomalous Information Spreading on Social Media," in IEEE Conference on Visual Analytics Science and Technology (IEEE VAST 2014) **[Honorable Mention Award]**

[C43] Guerra, J.*, Sahebi, S.*, Brusilovsky, P., and **Lin, Y.-R.** (2014), "The Problem Solving Genome: Analyzing Sequential Patterns of Student Work with Parameterized Exercises," in The 7th International Conference on Educational Data Mining (EDM 2014) **[17%]**

[C44] **Lin, Y.-R.**, Margolin, D., Keegan, B., Baronchelli, A. and Lazer, D. (2013). "#Bigbirds Never Die: Understanding Social Dynamics of Emergent Hashtag," Proceedings of the 7th International AAAI Conference on Weblogs and Social Media (ICWSM 2013) **[20%]**

[C45] **Lin, Y.-R.**, Margolin, D., Keegan, B. and Lazer, D. (2013). "Voices of Victory: A Computational Focus Group Framework for Tracking Opinion Shift in Real Time," Proceeding of the 22th International Conference on World Wide Web, P&E Track (WWW 2013) **[15%]**

[C46] Teng, C.-Y*, **Lin, Y.-R**, and Adamic, L. (2012), "Recipe recommendation using ingredient networks," Proceedings of Web Science 2012 (WebSci 2012)

[C47] Cao, N.*, **Lin, Y.-R.**, Sun, X., Lazer, D., Liu, S. and Qu, H. (2012), "Whisper: Tracing the Spatiotemporal Process of Information Diffusion in Real Time," Proceedings of the 18th IEEE Conference (InfoVis 2012) **[25%]**

[C48] **Lin, Y.-R.**, Bagrow, J. P., Lazer D. (2011), "More Voices than Ever? Quantifying Bias in Social and Mainstream Media," Proceedings of the 5th International AAAI Conference on Weblogs and Social Media (ICWSM 2011) **[20%]**

[C49] Sun, J., Cao, N., Gotz, D., **Lin, Y.-R.**, and Qu, H. (2011), "SolarMap: Multifaceted Visual Analytics for Topic Exploration," Proceedings of 2011 IEEE International Conference on Data Mining (ICDM 2011) **[12%]**

[C50] Cao, N., Sun, J., **Lin, Y.-R.**, Gotz, D., Qu, H. and Liu, S. (2010), "FacetAtlas: Multi-facet Visualization for Rich Text Corpora," Proceedings of the 16th IEEE InfoVis Conference (InfoVis 2010) **[26%]**

[C51] **Lin, Y.-R.**, Sun, J., Cao, N. and Liu, S. (2010), "ContexTour: Contextual Visual Analysis on Dynamic Multi-relational Clustering," Proceedings of 2010 SIAM International Conference on Data Mining (SDM 10) **[23%]**

[C52] Choudhury, M. D., **Lin, Y.-R.**, Sundaram, H., Candan, K. S., Xie, L. and Kelliher, A. (2010), "How Does the Data Sampling Strategy Impact the Discovery of Information Diffusion in Social Media?" Proceedings of the International AAAI Conference on Weblogs and Social Media (ICWSM 2010) **[19%]**

[C53] **Lin, Y.-R.**, Sun, J., Castro, P., Konuru, R., Sundaram, H. and Kelliher, A. (2009), "MetaFac: Community Discovery Via Relational Hypergraph Factorization," Proceedings of the 15th ACM SIGKDD International Conference on Knowledge discovery and data mining, pp. 527-536 (SIGKDD 2009 Research Track) **[21%]**

[C54] **Lin, Y.-R.**, Chi, Y., Zhu, S., Sundaram, H. and Tseng, B. L. (2008), "FacetNet: A Framework for Analyzing Communities and Their Evolutions in Dynamic Networks," Proceeding of the 17th International Conference on World Wide Web, pp. 685-694 (WWW 2008) **[11%]**

[C55] **Lin, Y.-R.**, Sundaram, H., Chi, Y., Tatemura, J. and Tseng, B. (2007), "Blog Community Discovery and Evolution Based on Mutual Awareness Expansion," Proceedings of the 2007 IEEE/WIC/ACM International Conference on Web Intelligence, pp. 48-56 (WI 2007) **[17%]**

[C56] **Lin, Y.-R.**, Chen, W.-Y., Shi, X., Sia, R., Song, X., Chi, Y., Hino, K., Sundaram, H., Tatemura, J. and Tseng, B. L. (2006), "The Splog Detection Task and a Solution Based on Temporal and Link Properties," The Fifteenth Text REtrieval Conference Proceedings, 14 pages (TREC 2006) **[oral presentation]**

[C57] Way, D.-L., **Lin, Y.-R.** and Shih, Z.-C. (2002), "The Synthesis of Trees in Chinese Landscape

Painting Using Silhouette and Texture Strokes," Journal of WSCG, pp. 499-506 (WSCG 2002)

Peer-reviewed Short Conference Papers

Papers with highly selective acceptance rates (<30%) are marked in bold. Acceptance rates are listed where information is available.

[C58] Wen, X.*, **Lin, Y.-R.**, Ahn, Y.*, Pelechrinis, K., Liu, X.*, Cao, N. (2019), "FacIt: Factorizing Tensors into Interpretable and Scrutinizable Patterns," to appear in IEEE Symposium on Visual Analytics Science and Technology (VAST 2019) `M` `V`

[C59] Chau, H.*, Li, A.*, **Lin, Y.-R.** (2017), "Predicting Students Performance Based on Their Reading Behaviors," to appear in 2017 International Conference on Social Computing, Behavioral-Cultural Modeling & Prediction and Behavior Representation in Modeling and Simulation (SBP-BRiMS 2017) `A` `M`

[C60] Ding, T.*, Deng, J.*, Li, J.*, **Lin, Y.-R.** (2017), "Sentiment Analysis and Political Party Classification in 2016 U.S. President Debates in Twitter," to appear in 2017 International Conference on Social Computing, Behavioral-Cultural Modeling & Prediction and Behavior Representation in Modeling and Simulation (SBP-BRiMS 2017) `M`

[C61] Li, L.*, Tong, H., Cao, N., Ehrlich, K., **Lin, Y.-R.**, Buchler, N. (2016), "TEAMOPT: Interactive Team Optimization in Big Networks," Proc. of The 25th ACM International Conference on Information and Knowledge Management (CIKM 2016) (demo track) `M` `V`

[C62] Farzan, R., Lu, D.*and **Lin, Y.-R.** (2016), "What Happens Offline Stays Offline? Examining Sustainability of A Hybrid Social System," Proceedings of the 27th ACM Conference on Hypertext and Social Media (Hypertext 2016) `A`

[C63] Sahebi, S.*, **Lin, Y.-R.**, Brusilovsky, P. (2016), "Tensor Factorization for Student Modeling and Performance Prediction in Unstructured Domain," Proceedings of the 9th International Conference on Educational Data Mining (EDM 2016) `M`

[C64] Wei, K.*, **Lin, Y.-R.** (2016), "The Evolution of Latino Threat Narrative from 1997 to 2014," iConference 2016 **[Best Poster Award Finalist]** `A`

[C65] Jin, S.*, Chen, R.*, Mu, X.*, **Lin, Y.-R.** (2016), "Visual Factoring of Historical Migration Flows in USA," iConference 2016 `V`

[C66] Margolin, D., Liao, D.*, **Lin, Y.-R.** (2015), "Conversing in Reflective Glory: A Systematic Study Using National Football League Games," in Proceedings of the 9th International AAAI Conference on Weblogs and Social Media (ICWSM 2015) [31%] `A`

[C67] Wen, X.*and **Lin, Y.-R.** (2015), "Tweeting Questions in Academic Conferences: Seeking or Promoting Information?" in iConference 2015 `A` `M`

[C68] Tsai, C. H.*and **Lin, Y.-R.** (2015), "The Evolution of Scientific Productivity of Junior Scholars," iConference 2015 `A` `M`

[C69] Lu, D.*, Lu, Y.*, Jeng, W.*, Farzan, R., **Lin, Y.-R.** (2015), "Understanding Health Information Intent via Crowdsourcing: Challenges and Opportunities," in iConference 2015 **[Best Poster Award Finalist]** `A`

[C70] Wen, X.*, **Lin, Y.-R,** Trattner, C. and Parra, D. (2014), "Twitter in Academic Conferences: Usage, Networking and Participation over Time," in the 25th ACM Conference on Hypertext and Social Media (Hypertext 2014) `A`

[C71] Tsai, C. H.*and **Lin, Y.-R.** (2014), "From Media Reporting to International Relations: A Case Study of Asia-Pacific Economic Cooperation (APEC)," in Web Science 2014 (WebSci 2014) `A`

[C72] **Lin, Y.-R.** (2014). "The Ripples of Fear, Comfort and Community Identity During the Boston Bombings," iConference 2014 `A`

[C73] Lu, L.*, Cao, N., Wen, Z., Wang, F., **Lin, Y.-R** and Qu, H. (2013), "Visualizing Sentiment Divergence Dynamics in Social Media Through SocialHelix," IEEE Information Visualization (InfoVis 2013) `V`

[C74] Cao, N.*, **Lin, Y.-R.**, Gotz, D., Sun, J. and Qu, H. (2011), "ChronAtlas: A Visualization for Dynamic Topic Exploration," IEEE Information Visualization (InfoVis 2011)

[C75] Spicer, R., **Lin, Y.-R.** and Kelliher, A. (2009), "Nextslideplease: Agile Hyperpresentations," Proceedings of the 2009 ACM International Conference on Multimedia (MM 2009 Video Track)

[C76] Spicer, R., **Lin, Y.-R.**, Kelliher, A. and Sundaram, H. (2009), "A Slide-Ware Application to Support Discursive Presentations," Proceedings of the 2009 ACM International Conference on Multimedia, pp. 971-972 (MM 2009) (technical demo)

[C77] **Lin, Y.-R.**, Sundaram, H., Choudhury, M. D. and Kelliher, A. (2009), "Temporal Patterns in Social Media Streams: Theme Discovery and Evolution Using Joint Analysis of Content and Context," IEEE International Conference on Multimedia and Expo, pp. 1456-1459 (ICME 2009) **[Oral presentation; 22%]**

[C78] Choudhury, M. D., Sundaram, H., **Lin, Y.-R.**, John, A. and Seligmann, D. D. (2009), "Connecting Content to Community in Social Media via Image Content, User Tags and User Communication," IEEE International Conference on Multimedia and Expo, pp. 1238-1241 (ICME 2009) **[Oral presentation; 22%]**

[C79] **Lin, Y.-R.**, Sundaram, H. and Kelliher, A. (2009), "JAM: Joint Action Matrix Factorization for Summarizing a Temporal Heterogeneous Social Network," Proceedings of the International AAAI Conference on Weblogs and Social Media, 4 pages (ICWSM 2009) **[23%]**

[C80] **Lin, Y.-R.**, Sun, J., Castro, P., Konuru, R., Sundaram, H. and Kelliher, A. (2009), "Extracting Community Structure through Relational Hypergraphs," Proceedings of the 18th International Conference on World Wide Web, pp. 1213-1214 (WWW 2009) **[21%]**

[C81] **Lin, Y.-R.**, Sundaram, H. and Kelliher, A. (2009), "Summarization of Large Scale Social Network Activity," IEEE International Conference on Acoustics, Speech and Signal Processing, pp. 3481-3484 (ICASSP 2009) [44%]

[C82] **Lin, Y.-R.**, Sundaram, H. and Kelliher, A. (2008), "Summarization of Social Activity over Time: People, Actions and Concepts in Dynamic Networks," Proceeding of the 17th ACM conference on Information and knowledge management, pp. 1379-1380 (CIKM 2008) **[16%]**

[C83] **Lin, Y.-R.**, Sundaram, H., Chi, Y., Tatemura, J. and Tseng, B. L. (2007), "Splog Detection Using Content, Time and Link Structures," IEEE International Conference on Multimedia and Expo, pp. 2030-2033 (ICME 2007) [45%]

[C84] **Lin, Y.-R.** and Sundaram, H. (2007), "Blog Antenna: Summarization of Personal Blog Temporal Dynamics Based on Self-Similarity Factorization," IEEE International Conference on Multimedia and Expo, pp. 540-543 (ICME 2007) [45%]

Peer-reviewed Workshop Papers

[W1] Yan, M.*, Lin, Y-R., Litman, D., "Argumentatively Phony? Detecting Misinformation via Argument Mining," 2021 KDD Workshop on AI-enabled Cybersecurity Analytics

[W2] Ahn, Y.*, **Lin, Y.-R.** (2018), "PolicyFlow: Interpreting Policy Diffusion in Context ," in The KDD 2018 Workshop on Interactive Data Exploration and Analytics

[W3] Javadi, S.*, **Lin, Y.-R.**, Pelechrinis, K. (2018), "Discovering Functionality of Urban Regions by Learning Low-dimensional Representations of a Spatial Multiplex Network," in the KDD 2018 Mining Urban Data (MUD) Workshop

[W4] He, X.*, **Lin, Y.-R.** (2016), "Monitoring Collective Attention During Disasters," in International Workshop on Collaborative Internet Computing for Disaster Management (CIC-DM 2016)

[W5] Chung, W.-T., **Lin, Y.-R.** (2016), "Probing Construct Validity in Data-driven Disaster Analysis," in International Workshop on Collaborative Internet Computing for Disaster Management (CIC-DM 2016)

[W6] Su, Y.*, Lan, Z.*, **Lin, Y.-R.**, Comfort, L., Joshi, J. (2016), "Tracking Public Response and Relief Efforts Following the 2015 Nepal Earthquake," in International Workshop on Collaborative Internet Computing for Disaster Management (CIC-DM 2016)

[W7] Sahebi, S.*, **Lin, Y.-R.**, Brusilovsky, P. (2016), "Tensor Factorization for Student Modeling and Performance Prediction in Unstructured Domain," Machine Learning for Digital Education and Assessment Systems (MLDEAS), ICML 2016 Workshop [M]

[W8] Tsai, C. H.* and **Lin, Y.-R.** (2016), "Tracing and Predicting Collaboration for Junior Scholars," in The WWW 2016 BigScholar workshop, WWW 2016 Companion Proceedings [A] [M]

[W9] Le, A.*, **Lin, Y.-R**, Pelechrinis, K. (2014), "Information Network Mining: A Case For Emergency Scenarios," in The 2014 KDD Workshop on Learning about Emergencies from Social Information (KDD-LESI 2014) [M]

[W10] Margolin, D., **Lin, Y.-R.**, Brewer, D. and Lazer, D. (2013), "Matching Data and Interpretation: Towards a Rosetta Stone Joining Behavioral and Survey Data," Proceedings of the When the City Meets the Citizen Workshop, ICWSM 2013 [A]

[W11] **Lin, Y.-R.** and Tolentino, L. (2010), "Position Paper – Tweeting Globally, Acting Locally: Booming and Sustaining Disability Awareness through Twitter," Proceedings of the CHI 2010 Microblogging Workshop [M] [V]

[W12] **Lin, Y.-R.**, Sundaram, H., Chi, Y., Tatemura, J. and Tseng, B. L. (2007), "Splog Detection Using Self-Similarity Analysis on Blog Temporal Dynamics," Proceedings of the 3rd International Workshop on Adversarial Information Retrieval on the Web, pp. 1-8 (AIRWeb 2007) [Full paper] [M]

[W13] **Lin, Y.-R.**, Sundaram, H., Chi, Y., Tatemura, J. and Tseng, B. L. (2006), "Discovery of Blog Communities Based on Mutual Awareness," Proceedings of the 3rd Annual Workshop on the Weblogging Ecosystems: Aggregation, Analysis and Dynamics, 12 pages (WWE 2006) [Full paper] [M]

[W14] Watts, J. and **Lin, Y.-R.** (2006), "Agent-based Model of a Simple Prehistoric Exchange System," Archaeological Sciences of the Americas Symposium 2006 [A] [V]

[W15] Way, D.-L., **Lin, Y.-R.** and Shih, Z.-C. (2002), "Chinese Ink Rendering for Trees Using Outline Drawing and Texture Strokes," Proceedings of 2002 International Workshop on Advanced Image Technology, pp. 1-5 (IWAIT 2002) **[Best Paper Award]** [V]

Technical Reports

[R1] **Lin, Y.-R.**, Schwanke, B., et al. "The Public Algorithms Survey in Allegheny County," arXiv preprint arXiv:2312.11497

[R2] **Lin, Y.-R.**, Lazer, D., Kennedy, R. (2015). "The Geography of Money and Politics: Population Density, Social Networks and Political Contributions," SSRN-id2632149

[R3] **Lin, Y.-R.**, Sundaram, H. and Kelliher, A. (2008), "Community Trajectory: Discovery of Evolutionary Collaboration Patterns Based on Event Co-participation," AME-TR-2008-4

Thesis

[T1] **Lin, Y.-R.** (2010), "Community Discovery in Dynamic, Rich-context Social Networks," Ph.D. Thesis (2011 CIDSE **Outstanding Ph.D. Student Award** in Computer Science)

[T2] **Lin, Y.-R.** (2001), "The Synthesis of Trees in Chinese Landscape Painting," Master Thesis (a short version of the thesis won the IWAIT 2002 **Best Paper Award**)

PATENTS

[P1] **Lin, Y.-R.**, Method for Edge Detection and Contour Stroke Generation, and Computer Readable Medium Thereof. Patent filed in 2004. Issued: No. I256599, US Patent 7386169, June 2008; Taiwan IPO, June 2006.

[P2] **Lin, Y.-R.** and Wang, C.-Y., Slideshow Composition Method. Patent filed in 2004. Issued: No. I267743, Taiwan IPO, December 2006

[P3] **Lin, Y.-R.**, Hsu, S.-F. and Wang, E., System and Method for the Automatic and Semi-Automatic

Media Editing. Patent filed in 2004. Issued: No. I233753, Taiwan IPO, December 2005

[P4] **Lin, Y.-R.** and Wu, A., Profile Rendering Method for Three-Dimensional Object to Create Continuous Picture Frames by Abstracting Silhouette, Surface Boundaries and Creases. Patent filed in 2002. Issued: No. I267798, Taiwan IPO, December 2006

Selected Talks and Presentations

Computational / Data Science

2023   *The Online-Offline Paradox: Language Literacy and Social Inequality*, Computational Social Science Seminar, Carnegie Mellon University, December, 2023

2023   *Measuring Interconnected Social Systems*, The Australian National University, Canberra, Australia, October, 2023

2023   *Measuring Online Public Sphere*, **Keynote Speaker** for Northeast Regional Conference on Complex Systems (NERCCS 2023), March, 2023

2022   *Measuring Engagement Online and At Risk Offline*, **Keynote Speaker** for ASIS&T SIG Social Media Annual Workshop, October, 2022

2022   *Countering Information Disorder Through Data Science*, **Keynote Speaker** for Data Science, Statistics & Visualisation 2022 (DSSV 2022), The International Association for Statistical Computing (IASC), June, 2022

2022   *Collaboratory Against Hate through Computational Analysis*, The MITRE Corporation, April 2022

2021   *From Online Footprints to Shared Traits: Promise & Perils of Mitigating Risk*, SCI Dean's Department and Program Spotlight Series, November 2021

2021   *Linking Online Attention to Offline Actions*, CNNI Seminar Series, HRL Laboratories, May, 2021

2021   *Linking Online Attention to Offline Actions*, IDeaS Seminar Series, CMU's center for disinformation, hate speech and extremism online, May, 2021

2021   *Linking Collective Attention to Collective Actions*, Featured Speaker at Computational Social Science Seminar, Yale University, February, 2021

2021   *Online misinformation consumption: the myth of typical consumers and eye appeal*, Featured Speaker at SAMSI Opening Workshop Day on Networks in Neuroscience, Health, and Information Spread, January, 2021

2019   *Interpretable Spatiotemporal Learning to Forecast Human-Societal Activity*, Center for Social Data Analytics Speaker Series, Pennsylvania State University, April, 2019

2019   *Interpretable Spatiotemporal Learning to Forecast Human-Societal Activity*, The Public Health Dynamics Laboratory Seminar Series, University of Pittsburgh, April, 2019

2018   *Forecasting Heroin Overdose Occurrences from Crime Incidents*, SBP-BRiMS 2018 Data Challenge, Washington DC, July, 2018

2018   *Event Analytics for Strengthening Community Resilience in a Cyber-Physical Society*, **Keynote** at the International Workshop on the Social Web for Environmental and Ecological Monitoring (SWEEM 2018), Stanford University, Stanford, June, 2018

2018   *Data Analytics for Community Resilience in a Cyber-Physical Society*, "Young AI Star" Talk at the Artificial Intelligence Forum 2018, National Cheng Kung University, Tainan, Taiwan, May, 2018

2017   *Tracking Risk and Impact from Disaster Events Using Social Sensors*, **Keynote** at the 1st International Workshop on Digital Footprints Analysis: Behavior Prediction, Risk Assessment, and Security Analytics (sponsored by IBM Research & Tongji University), Shanghai, China, May, 2017

2017   *Mining Insights from Disaster Events Using Social Sensors*, Pennsylvania State University, April, 2017

2016   *Tracking Collective Response to Terrorist Attacks Using Social Media Sensors*, Indiana University,

October, 2016

2016   *Tracking Collective Response to Terrorist Attacks Using Social Media Sensors*, Thomson Reuters Speaker Series, New York City, September, 2016

2016   *Collective Sensemaking via Social Sensors*, ACM SIGKDD 2016 Tutorial, San Francisco, August, 2016

2015   *Tracking Collective Response to Massive Disruptive Events via Mining Big Data*, Social Dynamics & Community Health Speaker Series, University of Pittsburgh, November, 2015

2015   *Tracking Collective Response to Massive Disruptive Events via Mining Big Data*, "Technology: Research in Chronic and Critical Illness" Seminars, School of Nursing, University of Pittsburgh, November, 2015

2015   *Tracing The Emotional Spreading Following A Mass Violence Event via Mining Big Data*, Institute of Information Science, Academia Sinica, Taiwan, May, 2015

2015   *Introduction to Data Science for the Humanities and Social Sciences*, iSchool/ULS Series, University of Pittsburgh Library System, April, 2015

2015   *Tracing The Emotional Spreading Following A Mass Violence Event via Big Data*, Joint SIS/DBMI Colloquium, February, 2015

2014   *The Ripple of Fear, Sympathy and Solidarity During A Large-scale Disruptive Event*, Kavli Frontiers of Science symposium, Tokyo, Japan, December, 2014, co-sponsored by the Japan Society for the Promotion of Sciences (JAFoS) and the National Academy of Sciences (NAS)

2014   *Emotional Spreading in Emergencies*, Urban Systems and Networks, NetSci 2014, Berkeley, CA, USA, June 2014

2014   *Rising tides or rising stars?: Dynamics of shared attention on Twitter during media events*, HCII Seminar Series, Carnegie Mellon University, April 2014

2013   *Rising tides or rising stars?: Dynamics of shared attention on Twitter during media events*, Indiana University, June 2013

2013   *Rising tides or rising stars?: Dynamics of shared attention on Twitter during media events*, NetSci 2013, Copenhagen, Denmark, June 2013

2013   *#Bigbirds never die: understanding the dynamics of emergent hashtags*, Lightning talks, sponsored by Hacks/Hackers Boston and the Nieman-Berkman Fellowship, March 2013

2013   *Making sense of emergent collective behavior from observed big data*, the University of Vermont, March 2013

2013   *Making sense of emergent collective behavior from observed big data*, the University of Pittsburgh, March 2013

2012   *Mining Big Data: Understanding Human Cultures Through Many Imperfect Len*, the 4th International Conference on Applied Human Factors and Ergonomics 2012 (AHFE 2012), San Francisco, California, USA, July 2012

2012   *The geography of money and politics*, NetSci 2012, Evanston, IL, June 2012

2012   *Tracing the invisible networks of US politics*, NetSci 2012, Evanston, IL, June 2012

2011   *Bias in Social and Mainstream Media*, Interdisciplinary Workshop on Information and Decision in Social Networks (WIDS), May 2011

2010   *Community discovery in dynamic, rich-context social networks*, SDM 2010 Student Doctoral Forum, April 2010

2010   *Community discovery in dynamic, rich-context social networks*, Center for Complex Network Research, Northeastern University, April 2010

2010   *Socially Mediating Disability Awareness*, Local to Global Justice Teach-in 2010, March 2010

2009   *Community Discovery in Dynamic, Rich Media Social Networks*, National Taiwan University, Taiwan, April 2009

2008   *Summarization of Community Shared Social Media*, IBM T. J. Watson Research Center, Hawthorne, NY, October 2008

Data Visualization

2024   *A Gateway to Trustworthy AI: Using Visual Analytics to Unmask Coincidental Correlations*, AI Seminar, University of Southern California, March, 2024

2024   *A Gateway to Trustworthy AI: Using Visual Analytics to Unmask Coincidental Correlations*, Responsible AI Seminar, The George Washington University, March, 2024

2018   *Visualizing Policy Diffusion in Context*, Tutorial at the 2018 State Politics and Policy Conference, Pennsylvania State University, June, 2018

2016   *Analyzing User behaviors via Data Visualization Techniques*, SBP 2016 Tutorial, Washington DC, July, 2016

2012   *Whisper: Tracing the Spatiotemporal Process of Information Diffusion in Real Time*, Arts, Humanities, and Complex Networks – 3rd Leonardo satellite symposium at NetSci 2012

2010   *FacetAtlas: Multifaceted Visualization for Rich Text Corpora*, Connecting The Dots Network Visualization Symposium, Harvard University, October 2010

Social / Political Science

2018   *The Different Real Worlds: Probing the Group Biases in Big Data*, Science 2018, University of Pittsburgh, October 2018

2013   *Rising tides or rising stars?: Dynamics of shared attention on Twitter during media events*, the 6th Annual Political Networks Conference, June 2013

2013   *Why So Similar?: A Social Theoretical Approach to Document Comparison*, Sunbelt 2013, Hamburg, Germany, May 2013

2012   *The geography of money and politics*, the 5th Annual Political Networks Conference, June 2012

2011   *Bias in Social and Mainstream Media*, the 4th Annual Political Networks Conference, June 2011

Selected Press

2023/03   *Department of Defense Awards $2 Million for Social Science Research Under the Defense Education and Civilian University Partnership*, US Department of Defense [link]

2020/09   *Why our minds can't make sense of COVID-19's enormous death toll*, National Geographic [link]

2018/10   *39 women doing amazing research in computational social science*, SAGE Ocean [link]

2017/10   *Americans' "unique connection" to Las Vegas could impact grieving*, Las Vegas Sun [link]

2017/04   *Real-time transit information making inroads in Oakland*, Pittsburgh Post Gazette [link]

2015/06   *Can phone data detect real-time unemployment?*, MIT News [link].

2015/06   *What Could Economists Do With All That Cell-Phone Data?*, The Atlantic [link].

2015/05   *How your cell phone knows if you've been laid off*, Fortune [link].

2015/05   *How Researchers Could Tell If You've Been Laid Off–From Your Cell-Phone Records*, WSJ Real Time Economics [link].

2015/05   *New study finds link between unemployment rate and cellphone use*, The Boston Globe [link].

2015/05   *Want To Know How Many People Are Working? Cell-Phone Data Will Tell You Way Before The Jobs Report*, Fast Company [link].

2014/12   *Looking at Social Media Reactions After Terrorist Attack*, PsychCentral [link].

2014/12   *Understanding How Emotions Ripple After Terrorist Acts*, Pitt News [link], ScienceDaily, and Phys.org.

2012/11   *Could Nate Silver Predict How Good Your Pumpkin Pie Will Be?*, NPR Blog [link]

2012/10   *Whisper: Tracing the Propagation of Twitter Messages in Time and Space*, Information Aesthetics [link]

2012/10   *Money and memes in politics*, news@Northeaster [link]

2012/10   *The Incredible Negative Spending of Super PACs*, The Atlantic [link]

2012/10   *Data for the debates*, iNSolution Research Blog [link]

2012/06	*Where and When Do Candidates Raise Money? An Awesome Visualization*, The Atlantic [link]
2011/11	*Cooking can be surprisingly forgiving*, ScienceNews [link]
2011/11	*Recipe Networks Reveal Human Taste Preferences: Network science is revolutionising the future of food*, techology review, published by MIT [link]
2011/03	*The expanding fiscal waistline*, iNSolution Research Blog [link]
2010/11	*Tweeting the elections*, news@Northeastern [link]

PROFESSIONAL SERVICES

Editorship

2022-Present	**Editor in Chief**, ICWSM, AAAI
2023-Present	**Editorial Board** of Frontiers in Big Data
2020-Present	**Editorial Board** of EPJ Data Science
2021-Present	**Editorial Board** of Nature Scientific Reports
2018-Present	**Editorial Board** of PLOS ONE
2015-2019	**Editorial Board** of Network Science Track, Web Intelligence Journal (WIJ)
2018-2019	**Guest Editor** of the Special Issue on AI for Disaster Management and Resilience (with Carlos Castillo and Jie Yin), IEEE Intelligent Systems
2016-2017	**Guest Editor** of the Special Issue on Interactive Visual Analysis of Human and Crowd Behaviors (with Nan Cao), ACM Transactions on Interactive Intelligent Systems (TiiS)
2015-2016	**Guest Editor** of the Special Issue on Big Scholar Data Discovery and Collaboration (with Hanghang Tong, Jie Tang, K. Selçuk Candan), IEEE Transactions on Big Data (TBD)

Chair / Co-chair

2024	The Web Conference 2024 (formerly known as WWW) Social Networks, Social Media, and Society Track: Research Track Co-Chair
2020	The 2020 KDD Humanitarian Mapping Workshop: Co-Chair
2020	The 2020 International Conference on Social Computing, Behavioral-Cultural Modeling, and Prediction (SBP-BRiMS 2020): Co-Chair of Graduate Program
2020	The Web Conference 2020 (formerly known as WWW) Web and Society Track: Research Track Co-Chair
2019	Program Co-Chair, The 13th International AAAI Conference on Weblogs and Social Media (ICWSM 2019)
2019	Chair of Graduate Program, 2019 International Conference on Social Computing, Behavioral-Cultural Modeling & Prediction and Behavior Representation in Modeling and Simulation (SBP-BRiMS 2019)
2018	3rd International Workshop on Event Analytics using Social Media Data (EASM 2018), co-located with ICWSM 2018
2018	Chair of Graduate Program, 2018 International Conference on Social Computing, Behavioral-Cultural Modeling & Prediction and Behavior Representation in Modeling and Simulation (SBP-BRiMS 2018)
2018	International Workshop on Social Web for Disaster Management (SWDM'18), co-located with WSDM 2018
2017	Program Co-Chair & Chair of Graduate Program, 2017 International Conference on Social Computing, Behavioral-Cultural Modeling & Prediction and Behavior Representation in Modeling and Simulation (SBP-BRiMS 2017)
2017	2nd International Workshop on Event Analytics using Social Media Data (EASM 2017), co-located with ICWSM 2017
2016	International Workshop on Social Web for Disaster Management (SWDM'16), co-located with CIKM 2016

2016	Student Travel Award Chair, IEEE International Conference on Big Data (IEEE BigData 2016)
2016	International Workshop on Collaborative Internet Computing for Disaster Management (CIC-DM 2016)
2016	Tutorial Chair, 2016 International Conference on Social Computing, Behavioral-Cultural Modeling, & Prediction (SBP16)
2015	IEEE ICDM Workshop on Event Analytics using Social Media Data (EASM 2015)
2014	IEEE International Workshop on Collaborative Big Data (C-Big 2014)
2014	IEEE Big Data Workshop: Challenges & Issues on Scholarly Big Data Discovery and Collaboration (SBD 2014)
2014	KDD Workshop on Learning about Emergencies from Social Information (KDD-LESI 2014)
2013	KDD Mutimedia Data Mining (MDM) Workshop
2011	Doctoral Symposium in ACM Multimedia 2011

Senior Program Committee Member (SPC)

International School and Conference on Network Science (NetSci 2017–2020)
The International Conference on World Wide Web (WWW 2017, 2021, 2022)
AAAI Conference on Artificial Intelligence (AAAI 2021, 2022)
The International Joint Conference on Artificial Intelligence (IJCAI 2015)
The International AAAI Conference on Weblogs and Social Media (ICWSM 2014–2018, 2020–present; Program Co-Chair: 2019; Steering Committee 2019–present)

Program Committee Member

The International Conference on World Wide Web (WWW 2011, 2012, 2014–2019)
ACM SIGKDD Conference on Knowledge Discover and Data Mining (KDD 2015, 2016, 2018, 2019)
International Conference on Computational Social Science (IC2S2 2016–2020)
IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM 2015–2017)
The International Conference on Social Informatics (SocInfo 2011, 2016–2018)
International Conference on Social Computing, Behavioral-Cultural Modeling, & Prediction (SBP 2016, 2017)
Information+ Conference 2018
Visualization in Data Science (VDS at IEEE VIS 2018)
ACM Web Science Conference (WebSci 2014)
IEEE/ASE International Conference on Social Computing (SocialCom 2014)
ACM International Conference on Web Search and Data Mining (WSDM 2013, 2014, 2016)
ACM Multimedia 2013 (MM 2013, 2014, 2017)
ACM Conference on Hypertext and Social Media (HT 2012, 2013, 2018)
The International AAAI Conference on Weblogs and Social Media (ICWSM 2010, 2011, 2012)
International Workshop on Social Web for Disaster Management (SWDM 2015)
International Workshop on Finding Patterns of Human Behaviors in Network and Mobility Data (NEMO 2011)
First International Workshop on Data Management and Analytics for Semi-Structured Business Processes (dma4sp 2011, 2013)
Workshop on Large-scale Data Mining: Theory and Applications (LDMTA 2010)
ACM Transactions on Knowledge Discovery from Data, Special Issue on Large-scale Data Mining: Theory and Applications (2010)
ICWSM Data Challenge Workshop 2009

Reviewer

Proceedings of the National Academy of Sciences of the United States of America (PNAS)
Communications of the ACM
PLoS ONE
Scientific Reports
Journal of the Royal Society Interface (J. R. Soc. Interface)
IEEE Transactions on Knowledge and Data Engineering (TKDE)
ACM Transactions on Knowledge Discovery from Data (TKDD)
Journal of Knowledge and Information Systems
IEEE Transactions on Multimedia
ACM Transactions on Multimedia Computing, Communications and Applications (TOMCCAP)
ACM Transactions on Information Systems (TOIS)
Journal of Distributed and Parallel Databases
Journal of Web Semantics
Journal of Information Science and Engineering
Safety Science, Elsevier
International Conference on Intelligent User Interfaces
ACM SIGKDD Conference
Workshop on Social Network Mining and Analysis
ACM Multimedia Conference

2013-2019 **Organizer**
Big Data Science Colloquium, School of Information Sciences, University of Pittsburgh

2014/06 **Instructor**
i3 Workshop: Network Visualization, University of Pittsburgh

Public/Community Services: Committee & **Advisory Board**

2024-Present Project team member of the U.S. AI Safety Institute Consortium (AISIC), established by the Department of Commerce's National Institute of Standards and Technology (NIST)

2021-Present Steering Committee of the "Collaboratory Against Hate" Research and Action Center

2020-2023 University Research Council, University of Pittsburgh

2019-Present The Pittsburgh Task Force on Public Algorithms (Chair: David Hickton)

2022-Present Advisor for AImpower.org (non-profit)

REFERENCES

Available upon request.