

LY DINH

University of South Florida,
School of Information
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EDUCATION

- 2022, May **Doctor of Philosophy**, Information Sciences
University of Illinois at Urbana-Champaign, USA
- **Dissertation Title:** Advances to network analysis theories and methods with applications in social, organizational, and crisis settings
 - **Advisor & Director of Research:** Dr. Jana Diesner (School of Information Sciences)
 - **Committee:** Dr. Scott Alhaus (Communication & Political Science), Dr. Peter Darch (School of Information Sciences), Dr. Leysia Palen (Computer Science & Information Science, University of Colorado-Boulder)
- 2016 **Master of Arts (with honors)**, Communication
University of Illinois at Urbana-Champaign, USA
- **Exam topics:** Organizational communication, network analysis, computational social science (CSS)
 - **Advisor:** Dr. Marshall Scott Poole
- 2014 **Bachelor of Arts (with honors)**, Communication
University of Southern California
- **Honors Thesis Title:** What's Facebook Good For? An Exploratory Study on the Connection between Motives of Social Networking Sites Usage and Generation of Social Capital as moderated by Cultural Differences
 - **Advisor(s):** Dr. Stacy L. Smith (Annenberg School for Communication), Dr. Margaret McLaughlin (Annenberg School for Communication)
 - **Minor(s):** Cinematic Arts & Entrepreneurship

ACADEMIC APPOINTMENTS

- Aug 2022 **Assistant Professor**
School Of Information, University of South Florida, Tampa, FL, USA

RESEARCH INTERESTS

Network Science, Computational Social Science, Organizational Communication, Crisis Informatics

TEACHING EXPERIENCE

Network Analysis, Social Media and News Analysis, Theories of Organizational Communication

PUBLICATIONS

Peer-Reviewed Journal Articles

- 2023 J6: **Dinh, L.**, Sarol, J., Jeoung, S., & Diesner, J. (*forthcoming*). Are we projecting gender biases to ungendered things? Differences in referring to female versus male named hurricanes in 33 years of news coverage. *Communication Communication Research*.

- 2023 J5: **Dinh, L.**, Barley, W.C., Johnson, L., & Allan, B.F (*under review*). Hyperauthored papers disproportionately amplify important egocentric network metrics.
- 2022 J4: **Dinh, L.***, Rezapour, R.*, Jiang, L., & Diesner, J. (2022). Enhancing structural balance to analyze signed digraphs of real-world organizational networks. *Front. Hum. Dyn.* 4:1028393. doi: 10.3389/fhumd.2022.1028393
- 2020 J3: Aref, S.* , **Dinh, L.***, Rezapour, R.* , & Diesner, J (*Equal Contribution). Multilevel structural evaluation of signed directed social networks based on balance theory. *Scientific Reports* 10, 15228 (2020). <https://doi.org/10.1038/s41598-020-71838-6>.
- 2020 J2: Barley, W. C., **Dinh, L.**, Workman, H., & Fang, C. (2020). Exploring the Relationship Between Interdisciplinary Ties and Linguistic Familiarity Using Multilevel Network Analysis. *Communication Research*, 0093650220926001.
- 2017 J1: Pilny, A., Proulx, J. D., **Dinh, L.**, & Bryan, A. L. (2017). An adapted structural framework for the emergence of communication networks. *Communication Studies*, 68(1), 72-94. doi: 10.1080/10510974.2016.1262886

Peer-Reviewed Conference Papers in Proceedings

- 2023 C16: Ge, Y., Jeung, S., **Dinh, L.**, & Diesner, J. (2023). Detection and Mitigation of the Negative Impact of Dataset Extractivity on Abstractive Summarization. *Findings of the Association for Computational Linguistics (ACL)*. Toronto, Canada.
- 2022 C15: **Dinh, L.**, Barley, W.C., Johnson, L., & Allan, B.F (2022). Diversity Measures for Scientific Collaborations. To appear in *Proceedings of the International Conference on Information. Springer, Cham, 2022*.
- 2022 C14: **Dinh, L.**, Kulkarni, S., Yang, P., & Diesner, J (2022). Reliability of Methods for Extracting Collaboration Networks from Crisis-related Situational Reports and Tweets. *Proceedings of the ISCRAM Asia Pacific, 2022*. Melbourne, Australia.
- 2021 C13: Rezapour, R., **Dinh, L.**, Diesner, J. (2021). Incorporating the Measurement of Moral Foundations Theory into Analyzing Stances on Controversial Topics. *Proceedings of the 32nd ACM Conference on Hypertext and Social Media (HT '21)*. Dublin, Ireland (Virtual).
- 2021 C12: Ge, Y., **Dinh, L.**, Liu, X., Su, J., Wang, A., & Diesner, J. (2021, June). BACO: A Background Knowledge- and Content-Based Framework for Citing Sentence Generation. *Proceedings of the 59th Annual Meeting of the Association for Computational Linguistics (ACL)*. Bangkok, Thailand (Virtual).
- 2021 C11: Sarol, J.* , **Dinh, L.***, & Diesner, J. (*Equal contribution) (2021). Variation in Situational Awareness Information of Crisis Events due to Human Choices about Data Sources, Summarization Methods, and Algorithm Implementation. *Proceedings of the 15th International Conference on Web and Social Media, ICWSM 2021*. Atlanta, GA (Virtual).
- 2020 C10: **Dinh, L.**, & Parulian, N. (2020). COVID-19 Pandemic and Information Diffusion Analysis on Twitter. *Proceedings of the Association for Information Science and Technology*, 57(1), e252. <https://doi.org/10.1002/pra2.252>. Pittsburg, PA (Virtual).
- 2020 C9: Sarol, M.J., **Dinh, L.**, Rezapour, R., Chin, C., Yang, P., & Diesner, J. (2020). An empirical methodology for detecting and prioritizing needs during crisis events. *Findings of Empirical Methods in Natural Language, EMNLP 2020*. Punta Cana, Dominican Republic (Virtual).

- 2020 C8: Jiang L., **Dinh L.**, Rezapour R., & Diesner J. (2020). Which group do you belong to? Sentiment-based PageRank to measure formal and informal influence of nodes in networks. *Proceedings of the International Conference on Complex Networks and Their Applications, Complex Networks, 2020*. Madrid, Spain (Virtual).
- 2019 C7: **Dinh, L.**, Sarol, J., Cheng, Y. Y., Hsiao, T. K., Parulian, N., & Schneider, J. (2019). Systematic examination of pre- and post-retraction citations. *Proceedings of the Association for Information Science and Technology, 56(1)*, 390-394. Melbourne, Australia.
- 2019 C6: Cheng, Y. Y., Parulian, N., Hsiao, T. K., **Dinh, L.**, Sarol, J., & Schneider, J. (2019). ReTracker: actively and automatically matching retraction metadata in Zotero. *Proceedings of the Association for Information Science and Technology, 56(1)*, 372-376. Melbourne, Australia.
- 2018 C5: **Dinh, L.**, & Diesner, J. (2018). Realizing the full potential of (infra-)structures for inter-agency communication before, during, and after disasters using the example of APAN (All Partners Access Network). In *Proceedings of the 3rd International Workshop on Social Sensing at ACM/IEEE International Conference on Internet of Things Design and Implementation 2018 (IoTDI 2018)*. Orlando, FL.
- 2017 C4: Barley, W.C., **Dinh, L.**, Workman, H.M., & Fang, C. (2017). Examining the Structure of Interactional Expertise in a Scientific Organization using Multilevel Egocentric Network Analysis. Paper presented at the *67th Annual Conference of the International Communication Association*. San Diego, California.
- 2016 C3: **Dinh, L.**, Luo, M., & Skurka, C. (2016). An evaluation of Spitzberg's meme diffusion: Bridging communication and computer science disciplines. Paper presented at the *66th Annual Conference of the International Communication Association*. Fukuoka, Japan.
- 2016 C2: Barley, W.C., Childs, K., Workman, H.M., & **Dinh, L.** (2016). Frame Mismatch: How framing communication as transmission hinders interdisciplinary collaboration. Paper presented at the *66th Annual Conference of the International Communication Association*. Fukuoka, Japan.
- 2015 C1: Pilny, A., **Dinh, L.**, Bryan, A., & Proulx, J. (2015). An adaptive structural framework for network emergence. Paper presented at the *65th Annual Conference of the International Communication Association*. San Juan, Puerto Rico.
- a. Winner: Top Brief Entertaining Scholarly Talk (B.E.S.T) | Networks panel

Peer-reviewed Extended Abstracts in Proceedings

- 2019 E7: **Dinh, L.**, Cheng, Y. Y., & Parulian, N. (2019). ReTracker: an open-source plugin for automated and standardized tracking of retracted scholarly publications. In *2019 ACM/IEEE Joint Conference on Digital Libraries (JCDL)*, 406-407. Urbana, Illinois.
- 2018 E6: **Dinh, L.**, & Barley, W.C., (2018). A Multiple Membership Multiple Classification (MMMC) model approach for Egocentric Network Data. Paper presented at *2018 Annual International Conference on Computational Social Science (IC2S2)*. Evanston, IL.
- 2017 E5: **Dinh, L.**, Shavitt, S., & Jung, K. (2017). Before Landfall: Anticipatory sentiments in media coverage of Hurricanes from 1980 to 2012. Paper presented at *2017 Society for Social Studies of Science (4S) Conference*. Boston, MA.

- 2017 E4: **Dinh, L.**, & Fang, C. (2017) Exploring the dynamics of interdisciplinary collaboration using social network analysis: the effects of formal and informal network structures. Paper presented at *2017 International Sunbelt Social Network Conference*. Beijing, China.
- 2016 E3: **Dinh, L.** (2016). Exploring the meaning of interdisciplinary collaboration in a scientific organization: An application of text and network analysis. Paper presented at *2016 International Sunbelt Social Network Conference*. Newport Beach, CA.
- 2016 E2: Pilny, A., Poole, M.S., Proulx, J., **Dinh, L.**, & Luo, M. (2016). Who needs an alter anyways? Using the ego-centric relational event model to analyze teams in open communication networks. Paper presented at *2016 International Sunbelt Social Network Conference*. Newport Beach, CA.
- 2015 E1: Pilny, A., **Dinh, L.**, Poole, M.S., Skurka, C. (2015). Empirically testing an Input-Process-Outcome multi team system model. Presentation at *2015 International Sunbelt Social Network Conference*. Brighton, United Kingdom.

Peer-reviewed Posters in Proceedings

- 2021 P11: **Dinh, L.**, Akuka, I., & Diesner, J. (2021). Interorganizational collaboration networks during 2018 Hurricane Michael response. *US Department of Homeland Security Centers of Excellence (COE) Summit*. Fairfax, Virginia (Virtual).
- 2021 P10: Yang, P., Sarol, M.J., **Dinh, L.**, & Diesner, J. (2021). Annotation guidelines for entity tagging and semantic role labeling of disaster-related text documents. *US Department of Homeland Security Centers of Excellence (COE) Summit*. Fairfax, Virginia (Virtual).
- 2020 P9: Aref, S., **Dinh, L.**, Rezapour, R., & Diesner, J. (2020). Multilevel structural evaluation of signed directed social networks. Extended abstract *Network Science Society Conference 2020 (NetSci2020)*. Rome, Italy (Virtual).
- 2020 P8: **Dinh, L.**, Sarol, J., & Diesner, J. (2020). How does situational awareness of emergencies depend on choices about data sources, analysis methods, and implementation of algorithms? Poster presented at *6th International Conference on Computational Social Science (IC2S2)*. Cambridge, MA.
- 2020 P7: **Dinh, L.***, Rezapour, R.*, Jiang, L., & Diesner, J. (2020). Assessing balance in signed digraphs by combining balance and transitivity. (*Equal contribution) Poster presented at *6th International Conference on Computational Social Science (IC2S2)*. Cambridge, MA.
- 2018 P6: **Dinh, L.**, & Cheng, Y.-Y. (2018). Middle of the (by)line: Examining hyperauthorship networks in the Human Genome Project. Poster presented at the *Association for Information Science and Technology (ASIS&T) Annual Meeting*. Vancouver, Canada.
- 2017 P5: Pilny, A., **Dinh, L.**, Fang, C., Poole, M.S., Proulx, J., Ruge-Jones, L., & Yahja, A. (2017). Building dynamic networks from trace data versus human coded interactions: A comparison of two collection methods. Poster presented at *2017 NetSci International School and Conference on Network Science*. Indianapolis, IN.
- 2016 P4: Pilny, A., Poole, M.S., Proulx, J., **Dinh, L.**, & Luo, M. (2016). Linking communicative processes and attitudinal outcomes through a multiteam system group experiment. Poster presented at *2017 INGRoup conference*. Helsinki, Finland.

- 2015 P3: **Dinh, L.** (2015). Visualizing the Evolution of Communication and Technology field using Co-Authorship and Paper Citation network Analysis. Poster presented at *2015 International Sunbelt Social Network Conference*. Brighton, United Kingdom.
- 2015 P2: Pilny, A., Poole, M.S., Yahja, A., Skurka, & **Dinh, L.** (2015). Uncertainty in social media and team performance: An experimental design in progress. Poster presented at *2015 International Communication Association*. San Juan, Puerto Rico.
- 2015 P1: **Dinh, L.** (2015). A Balance Theory approach to Trust in Multi-Team Systems. Poster presented at *2015 Pre-Conference in Computational Approaches to Advance Communication Research, International Communication Association*. San Juan, Puerto Rico.

Doctoral Colloquium

- 2021 **Dinh, L.** (2021, October). Advances to network analysis theories and methods with applications in social, organizational, and crisis settings. *Doctoral colloquium, 2021 Annual Meeting of the Association for Information Science and Technology (ASIS&T)*. Salt Lake City, UT, October 30 - November 2.
- 2021 **Dinh, L.** (2021, September). Advances to network analysis theories and methods with applications in social, organizational, and crisis settings. *Doctoral colloquium, 2021 Annual Conference of the Association for Library and Information Science Education (ALISE)*. Virtual, September 20-24.
- Won 2nd Place for Jean Tague-Sutcliffe Doctoral Research Poster Competition

RESEARCH EXPERIENCE

- 2018-2020 **Critical Infrastructure Resilience Institute, University of Illinois Urbana-Champaign**
Graduate Research Assistant
- Project: Reliable Extraction of Emergency Response Networks from Text Data
 - Supervisor: Dr. Jana Diesner
- 2018 **Network Science Fellow, Visible Network Labs (Denver, CO)**
Summer Research Fellow
- Project: Gender Names in Hurricane News Coverage
 - Supervisor: Dr. Danielle Varda
- 2016-2017 **Cline Center for Advanced Social Research, University of Illinois Urbana-Champaign**
Graduate Research Assistant
- Project: Gender Names in Hurricane News Coverage
 - Supervisor: Dr. Jana Diesner, Dr. Sharon Shavitt
- 2014-2016 **Department of Communication, University of Illinois Urbana Champaign**
Pre-Doctoral Research Fellow
- Supervisor: Dr. Marshall Scott Poole

TEACHING EXPERIENCE

Instructor of Record

- 2023 **LIS 4934: Senior Capstone**
Summer School of Information, University of South Florida

- 2023
Spring **LIS 5937: Social Network Analysis**
School of Information, University of South Florida
- 2023
Spring **LIS 4800: Introduction to Data Science**
School of Information, University of South Florida
- 2022
Fall **LIS 4372: Advanced Statistics & Analytics with R**
School of Information, University of South Florida
- 2021
Spring **IS527: Network Analysis**
School of Information Sciences, University of Illinois Urbana-Champaign
- Sole instructor for 13-weeks of lectures
 - Lectures cover fundamentals of network analysis, from theories, methods, to applications of networks in social, organizational, and crisis management research
- Average Rating for Teaching Effectiveness: 5.0/5.0

Co-Instructor

- 2020
Spring **LIS559NA: Network Analysis**
School of Information Sciences, University of Illinois Urbana-Champaign
- Co-instructor for 7-weeks of lectures
 - Teach sessions on statistical approaches for network analysis, using R (for QAP, ERGM, Multiple Membership models)
- Average Rating for Teaching Effectiveness: 4.6/5.0

Teaching Assistant

- 2017
Summer **Information Science & Engineering Summer School**
Global Education & Training, University of Illinois Urbana-Champaign
- Grading, create quizzes & R-programming workshop for student
- 2017
Spring **LIS590NA: Network Analysis**
School of Information Sciences, University of Illinois Urbana-Champaign
- Grading and assisting students with class materials and assignments
- 2017
Fall **LIS543: Sociotechnical Information Systems**
School of Information Sciences, University of Illinois Urbana-Champaign
- Grading and assisting students with class materials and assignments
- 2016
Fall **INFO 202: Social Aspects of Information Technology**
School of Information Sciences, University of Illinois Urbana-Champaign
- Led two sections of 20 students each
 - Discuss topics related to each week's lecture with use of technology-aided exercises such as interactive videos, online quizzes, debates

WORKSHOPS ORGANIZED

- 2021 **WebConference 2021, Ljubljana, Slovenia (online)**
Tutorial: PyNetworkshop - Analyzing the Structure of Networks in Python - The Essentials, Signed Networks, and Network Optimization.

2021 **Networks 2021: A Joint Sunbelt & Netsci Conference, Bloomington, USA (online)**
Tutorial: PyNetworkshop - Analyzing the Structure of Networks in Python -
The Essentials, Signed Networks, and Network Optimization.

2021 **IC2S2 2021, ETH Zurich, Switzerland (online)**
Tutorial: PyNetworkshop - Analyzing the Structure of Networks in Python -
The Essentials, Signed Networks, and Network Optimization.

INVITED TALKS

2021 **VinUniversity, College of Engineering & Computer Science, Vietnam**
Talk title: Advances to network analysis theories and methods with applications in social,
organizational, and crisis settings.

2020 **Women@NCSA speaker Series, University of Illinois Urbana Champaign**
Talk title: Gendering the Ungendered: Examination of hurricanes news coverage from
1979-2012.

2016 **INFO 202, Social Aspects of Information Technology**
Talk title: Introduction to Social Network Analysis for Information Sciences

2015 **LGBT Resource Center, QUENCH Speaker Series, University of Illinois**
Talk title: No Role Models Abroad: Mis- and Under-Representation of LGBTQ Characters
in Foreign (Mainstream) Cinema.

HONORS AND AWARDS

2023 **Berner-Nash Memorial Dissertation Award**
iSchool Illinois's award for outstanding doctoral dissertation

2021 **Josie B. Houchons Departmental Fellowship**
iSchool fellowship support for a student of outstanding promise

2021 **Irwin Departmental Fellowship**
Summer
Summer fellowship for dissertation research

2020 **Grace Hopper Celebration (GHC) Student Scholar**
Sponsored by Cisco Systems Inc. to attend conference and participate in workshops

2020 **Graduate Teacher Certificate**
May
Center for Innovation in Teaching & Learning, University of Illinois at Urbana Champaign
- Taught more than two semesters of courses, participated in a series of teaching
development program and evaluations, and fulfilled additional teaching requirements

2020 **Women in Data Science Conference (WiDS) Poster Competition, Winner**
March
Poster title: *Which group do you belong to? Sentiment-based PageRank to measure formal
and informal influence of nodes in networks.*

2019 **iSchool Research Showcase Poster Competition, Winner**
October
Poster title: *Gendering the Ungendered: Examination of hurricanes news coverage from
1979-2012*

- 2019 **Association for Information Science and Technology (ASIS&T) Student Design Competition, Winner**
Design title: ReTracker: Actively and Automatically Matching Retraction Metadata in Zotero
- 2017 **International Communication Association, Networks Panel, Best Brief Entertaining Scholarly Talk**
Talk title: *Examining the Structure of Interactional Expertise in a Scientific Organization using Multilevel Egocentric Network Analysis*
- 2015 **International Communication Association, Networks Panel, Best Brief Entertaining Scholarly Talk**
Talk title: *An adaptive structural framework for network emergence*
- 2014 Summer **Elizabeth Winter Young Summer Fellowship**
Department of Communication, University of Illinois Urbana-Champaign
- 2014 **Graduate Image of Research Competition, People's Choice Award**
University of Illinois Urbana-Champaign
Poster title: *Visualizing the Evolution of Communication and Technology field using Co-Authorship and Paper Citation network Analysis*
- 2014 May **Marcia Israel Award for Best Feasibility Study**
Lloyd Greif Center for Entrepreneurial Studies, University of Southern California
Paper title: *Visions Analytics - A Feasibility Study for Software-as-a-Service (SaaS)*
- 2014 **Phi Kappa Phi Honors Society, Inductee**
- 2013-2014 **Provost's Undergraduate Research Fellow, University of Southern California**
- 2012 **Lambda Pi Eta Honors Society for Communication studies, Inductee**

SERVICES

Program Committee in Conferences

- 2022 **ACM Web Science Conference (WebSci)**
- Program Committee member to help with organizing submissions for review
 - Reviewed 3 submissions
- 2020 **International Conference on Social Informatics (SocInfo)**
- Program Committee member to help with organizing submissions for review
 - Reviewed 2 submissions

Session Chair in Conferences

- 2021 **84th Annual Conference of the Association for Information Science and Technology (ASIS&T)**
- Chair and moderator for "Scientometrics and Bibliometrics" session

Departmental Committee Membership

- 2022 **Diversity Committee**
Faculty member at USF School of Information

2017 **Diversity Committee**
PhD Student Representative

2016 **Doctoral Studies Committee**
PhD Student Representative

Student-Led Organization Membership

2014-2016 **Rainbow International**
President

Reviewer in Journals

2021 Computational and Mathematical Organization Theory

2021 PLOS One

Reviewer in Conferences

2023 Association for Information Science and Technology (ASIS&T)

2021 Advances in Social Network Analysis and Mining (ASONAM)

2021 The Web Conference

2020 The Web Conference (used to be WWW)

2020 International Conference on Social Informatics (SocInfo)

2019 Computer Supported Cooperative Work (CSCW)

2018 Advances in Social Network Analysis and Mining (ASONAM)

2018 International Conference on Computational Social Science (IC2S2)

2017 International Conference on Social Media & Society (#SMSociety)

2017 Collaborative Innovation Networks Conference (COINs)

2017 International Conference on Social Informatics (SocInfo)

Professional Organization Member

2020 - Association for Library and Information Science Education (ALISE)

2019 - Association for Computing Machinery (ACM)

2018 - Association for Information Science and Technology (ASIS&T)

2018 - North American Social Network Conference (NASN)

2016 - International Social Networks Association (INSNA)

2014 - National Communication Association (NCA)

2014 - International Communication Association (ICA)