

Henry Kudzanai Dambanemuya

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Academic Appointments

- 2024-Present *Assistant Instructional Professor*
Masters Program in Computational Social Science, University of Chicago
- 2024-Present *Faculty Affiliate*
Department of Sociology, Division of Social Sciences, University of Chicago

Education

- 2024 PH.D. in Technology & Social Behavior, Northwestern University
- 2021 M.SC. in Technology & Social Behavior, Northwestern University
- 2017 M.A. in International Peace Studies, University of Notre Dame
- 2013 B.A. in Computer Science & Conflict Studies, DePauw University

Publications & Talks

JOURNAL ARTICLES

- 2025 Dambanemuya, H.K., Choi, E., Gergle, D., and Horvát E-Á. “Beyond Words: An Experimental Study of Signaling in Crowdfunding.” *ACM Transactions on Computer-Human Interaction (TOCHI)*. DOI: <https://doi.org/10.1145/3716381>
- 2021a Dambanemuya, H.K., and Diakopoulos, N (2021), “Auditing the Information Quality of News-Related Queries on the Alexa Voice Assistant”, *Proc. ACM: Computer-Supported Cooperative Work*, CSCW1, Article 83. DOI: <https://doi.org/10.1145/3449157>
- 2021b Dambanemuya, H.K., and Horvát E-Á (2021), “A Multi-Platform Study of Crowd Signals Associated with Successful Online Fundraising”, *Proc. ACM: Computer-Supported Cooperative Work*, CSCW1, Article 115. DOI: <https://doi.org/10.1145/3449189>

- 2021c Dambanemuya, H.K., Lin, H., and Horvát E-Á (2021), “Characterizing Online Media on COVID-19 During the Early Months of the Pandemic”, *Journal of Quantitative Description: Digital Media*, 1(1), pp.1-31. DOI: <https://doi.org/10.51685/jqd.2021.014>
- 2017 Nigam, A., Dambanemuya, H.K., Joshi, M., and Chawla, N.V (2017). “Harvesting Social Signals to Inform Peace Processes Implementation and Monitoring”, *Big Data*, 5(4), pp.337-355. DOI: <https://doi.org/10.1089/big.2017.0055>
- PEER-REVIEWED ARCHIVAL CONFERENCE PROCEEDINGS[♣]
- 2024a Dambanemuya, H.K., Romero, D., and Horvát E-Á (2024), “Emergent Influence Networks in Good-Faith Online Discussions”, *Proceedings of the International AAAI Conference on Web and Social Media, ICWSM18(1)*, 329-339. DOI: <https://doi.org/10.1609/icwsm.v18i1.31317>
- 2024b Lamba, H., Abilov, A., Zhang, K., Olson, E.M., Dambanemuya, H.K., Barcia, J.C., Batista, D.S., Wille, C., Cahill, A., Tetreault, J.R., Jaimes, A., 2024. “HumVI: A Multilingual Dataset for Detecting Violent Incidents Impacting Humanitarian Aid”, *In Findings of the Association for Computational Linguistics: EMNLP*, 12705–12722. DOI: <https://doi.org/10.18653/v1/2024.findings-emnlp.743>
- 2024c Fernandes, G., Wei, B., Romano, C., Ulusel, D., Dambanemuya H.K., Gao, Y., Ghaffari, R., Rogers, J., Alshurafa, N., 2024. “HealthSense: Unobtrusive Continuous Stress Monitoring Using a Novel Dual ECG-PPG Patch”, *IEEE-EMBS International Conference on Wearable and Implantable Body Sensor Networks (BSN)*. DOI: <https://doi.org/10.1109/BSN63547.2024.10780566>
- 2023a Dambanemuya, H.K., Wachs, J., and Horvát E-Á (2023), “Understanding (Ir)rational Herding Online”, *Proc. ACM Collective Intelligence Conference*. DOI: <https://doi.org/10.1145/3582269.3615598>
- 2023b Horvát E-Á, Dambanemuya, H.K., Uparna, J.S., and Uzzi, B (2023), “Hidden Indicators of Collective Intelligence in Crowdfunding”, *Proc. ACM Web Conference*. DOI: <https://doi.org/10.1145/3543507.3583414>
- 2019a Dambanemuya, H.K., and Horvát E-Á (2019), “Harnessing Collective Intelligence in P2P Lending”, *Proc. ACM Web Science Conference*. DOI: <https://doi.org/10.1145/3292522.3326040>
- 2019b Dambanemuya, H.K., Joshi, M., and Horvát E-Á (2019), “Network Perspective on the Efficiency of Peace Accords Implementation”, *Proc. IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM)*, pp.341-348, IEEE. DOI: <https://doi.org/10.1145/3341161.3342895>
- 2019c Dambanemuya, H.K., and Horvát E-Á (2019), “Network-Aware Multi-Agent Simulations of Herder-Farmer Conflicts”, *Proc. IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM)*, pp.721-722, IEEE. DOI: <https://doi.org/10.1145/3341161.3343682>

[♣]In computer science and related fields, peer-reviewed archival conference proceedings are considered prime publication venues.

BOOK CHAPTER

- 2023 Diakopoulos, N., Bandy, J., and Dambanemuya, H.K (2023), “Auditing Human-Machine Communication Systems Using Simulated Humans”, *The SAGE Handbook of Human-Machine Communication*. Eds. Guzman, A.L., McEwen, R., and Jones, S. SAGE Publishing.

PEER-REVIEWED NON-ARCHIVAL PUBLICATIONS & EXTENDED ABSTRACTS

- 2023a Dambanemuya, H.K., Romero, D., and Horvát E-Á (2023), “Predicting Persuasion Success with Network-Based Machine-Learning Tools”, *International School and Conference on Network Science (NetSci)*.
- 2023b Abhari, R., Dambanemuya, H.K., Vincent, N., Villa-Turek, E., and Horvát E-Á (2023), “Misinformation from The Circulation of Retracted COVID-19 Articles on Twitter”, *International Conference on the Science of Science and Innovation (ICSSI)*.
- 2022a Dambanemuya, H.K., and Horvát E-Á (2022), “A Network-Based Approach to Understanding Signaling and Irrational Herding Behavior Online”, *72nd Annual International Communication Association (ICA) Conference*. **Best Student Paper Award**.
- 2022b Dambanemuya, H.K., Choi, E., Gergle, D., and Horvát E-Á (2022), “Universal Crowd Behavior Predicts Success in Crowdfunding. 2022”, *8th International Conference on Computational Social Science (IC2S2)*.
- 2022c Dambanemuya, H.K., Wachs, J., and Horvát E-Á (2022), “Emergent Networks of Herding in Online Peer-to-Peer Lending”, *8th International Conference on Computational Social Science (IC2S2)*.
- 2022d Abhari, R., Vincent, N., Dambanemuya, H.K., and Horvát E-Á (2022), “Polarization and Conspiracy in Tweets about Retracted COVID-19 Research”, *8th International Conference on Computational Social Science (IC2S2)*.
- 2022e Abhari, R., Vincent, N., Dambanemuya, H.K., Bodon, H., and Horvát E-Á (2022), “Engagement with Retracted Articles on Twitter: Who, When, and How?”, *8th International Conference on Computational Social Science (IC2S2)*.
- 2021a Dambanemuya, H.K., and Diakopoulos, N (2021), “Alexa, what is going on with the impeachment? Evaluating smart speakers for news quality”, *Computation + Journalism Symposium*.
- 2021b Dambanemuya, H.K., Choi, E., Gergle, D., and Horvát E-Á (2021), “An Experimental Study of the Effectiveness of Crowd Signals in Online Fundraising”, *7th International Conference on Computational Social Science (IC2S2)*.
- 2020a Dambanemuya, H.K., Joshi, M., and Horvát E-Á (2020), “Efficient Pathways for Peace Accords Implementation: A Network Approach”, *6th International Conference on Computational Social Science (IC2S2)*.

- 2020b Dambanemuya, H.K., Joshi, M., and Horvát E-Á (2020), “Network Interventions for Peace Accords Implementation”, *International School and Conference on Network Science (NetSci)*.
- 2020c Dambanemuya, H.K., and Horvát E-Á (2020), “Inferring Irrational Lending Behavior from Implicit Herding Networks”, *International School and Conference on Network Science (NetSci)*.
- 2020d Dambanemuya, H.K., and Horvát E-Á (2020), “Harnessing Collective Intelligence in P2P Lending”, *ACM Collective Intelligence*.
- 2019 Dambanemuya, H.K., and Horvát E-Á (2019), “Harnessing Collective Intelligence in P2P Lending”, *69th Annual International Communication Association (ICA) Conference*.

INVITED PRESENTATIONS & PANELS

- 2024 *Invited speaker*. Computational Social Science Lightning Talks, University of Chicago
- 2024 *Invited panelist*. AI and the Future of Work. Midwest Ethics Symposium, Prindle Institute for Ethics, DePauw University, Greencastle, IN.
- 2024 *Invited participant*. Future Faculty Workshop. University of Notre Dame, Notre Dame, IN.
- 2023 *Presidential Fellows Speaker Series*. Collective Intelligence in Crowd-Based Systems. Northwestern University, Evanston, IL.
- 2022 *Invited participant*. Uniting Scholars in Research. Meta, Menlo Park, CA.
- 2018 *Keynote speaker*. Convocation Awards Ceremony. DePauw University, Greencastle, IN.

Research Experience

- 2025 – present *Principal Investigator*, University of Chicago
- 2018 – 2024 *Graduate Student Researcher*, Lab on Innovation Networks and Knowledge (LINK) Northwestern University, PI: Emőke-Ágnes Horvát, Funding: [NSF #1755873](#), [NSF #1943506](#)
- 2020 – 2021 *Graduate Student Researcher*, Health Awareness Bits (HABits) Lab Northwestern University, PI: Nabil Alshurafa, Funding: [NIH #K25DK113242](#), [NIH #R21EB030305](#)
- 2019 – 2021 *Graduate Student Researcher*, Computational Journalism Lab (CJL) Northwestern University, PI: Nicholas Diakopoulos, Funding: [NSF #1717330](#)
- 2018 – 2019 *Graduate Student Researcher*, Community Data Science Collective (CDSC) Northwestern University, PI: Aaron Shaw, Funding: Internal
- 2016 – 2017 *Research Associate*, Interdisciplinary Center for Network Science and Applications (iCeNSA) University of Notre Dame, PI: Nitesh V. Chawla, Funding: Army Research Laboratory under Cooperative Agreement #W911NF-09-2-0053, [NSF #1447795](#)

Industry Experience

2023	<i>PhD Research Intern</i> , Dataminr (Artificial Intelligence): New York, NY
2022	<i>PhD Research Intern</i> , Microsoft (Office of Applied Research): Redmond, WA
2017 – 2018	<i>Data Scientist</i> , Chewy, Inc (Business Intelligence): Dania Beach, FL
2014 – 2015	<i>Software Engineer</i> , Liberty Mutual Insurance (Business Intelligence): Dover, NH
2013 – 2014	<i>Information Technology Analyst</i> , Liberty Mutual Insurance (Business Intelligence): Seattle, WA
2012	<i>Information Technology Intern</i> , Liberty Mutual Insurance: Indianapolis, IN
2011	<i>Software Quality Assurance Intern</i> , RICS Software: Indianapolis, IN
2010	<i>Information Technology Intern</i> , DePauw University: Greencastle, IN
2009	<i>Information Technology Intern</i> , World Vision International: Zimbabwe

Teaching Experience

UNIVERSITY OF CHICAGO - COURSES

2025 – present	Digital Experiments (MACS: 30755) Spring Quarter
2025 – present	Collective Intelligence (MACS: 30455) Winter Quarter
2025 – present	Perspectives on Computational Research (MACS: 30200) Spring Quarter
2024 – present	Perspectives on Computational Analysis (MACS: 30000) Fall Quarter

NORTHWESTERN UNIVERSITY - COURSES

2021 – 2024	Computing Everywhere (Communication Studies: 159) Winter & Spring Quarter
2020, 2022, 2023	Cultural & Art Analytics [†] (MSLCE: 515) Spring Quarter
2020	Summer Institute in Computational Social Science [†] (SICSS) Summer Quarter
2019	Global Human Trafficking [†] (Special Topics in Social Policy: 351) Fall Quarter
2019	Social Network Analysis [†] (IEMS: 441) Fall Quarter

[†] Courses taught as a teaching assistant

Academic & Community Service

2021 – 2024	<i>Liaison to The Graduate School</i> , Society of Fellows, Northwestern University
2019 – 2024	<i>Student Volunteer</i> , Comm. Department Guest Speaker Series, Northwestern University
2019 – 2024	<i>Student Volunteer</i> , Comm. Department Prospective Student Visit, Northwestern University
2019	<i>Food Bank Volunteer</i> , Nourishing Hope - Sheridan Market, Chicago, IL
2015 - 2016	<i>STEM Tutor</i> , After-School Program, Boys and Girls Clubs of St Joseph County, South Bend, IN
2013 – 2014	<i>Data Analyst</i> , Space Humanitarian Imagery Mission (SHIM-1), Denver, CO
2011 – 2014	<i>Special Adviser</i> , The Sentinel Project for Genocide Prevention, Toronto, Canada
2013	<i>Refugee Tutor</i> , After-School Program, Horn of Africa Services, Seattle, WA
2011 – 2013	<i>Student Activist</i> , Raise Hope for Congo: Center for American Progress, Washington, DC
2011 – 2012	<i>Resident Assistant</i> , Campus Life and Community Development, DePauw University
2010 – 2011	<i>Co-Founder</i> , E-Waste Recycling Program, DePauw University

UNIVERSITY BOARDS & COMMITTEES

2018 – 2024	<i>Director</i> , Board of Directors, DePauw University Alumni Association
2016 – 2017	<i>Member</i> , Distinguished Alumni Selection Committee, Kroc Institute for International Peace Studies, University of Notre Dame
2012 – 2013	<i>Ambassador</i> , Office of the President, DePauw University
2012 – 2013	<i>Advisor</i> , Student Government Advising Committee, DePauw University
2012 – 2013	<i>Member</i> , University Review Committee, DePauw University
2012 – 2013	<i>Member</i> , International Education Committee, DePauw University
2011 – 2012	<i>Member</i> , Asher Fund Steering Committee, DePauw University
2011 – 2012	<i>Member</i> , International Student Advisory Board, DePauw University
2011 – 2012	<i>Member</i> , Community Standards Hearing Board, DePauw University
2010 – 2011	<i>Member</i> , Student Government Allocations Board, DePauw University

REVIEWER FOR NATIONAL SCIENCE FOUNDATION (NSF)

- Computer and Information Science and Engineering (CISE) 2024

CONFERENCE PROGRAM ASSOCIATE CHAIR

- ACM Conference on Computer Supported Cooperative Work (CSCW) 2024

CONFERENCE PROGRAM MEMBER

- AAAI International Conference on Web and Social Media (ICWSM) 2022
- InfoSocial Graduate Student Conference at Northwestern 2019
- International Conference on Computational Social Science (IC2S2) 2018

REVIEWER FOR JOURNALS & CONFERENCES

- International Journal of Communication (IJoC) 2024
- AAAI International Conference on Web and Social Media (ICWSM) 2020 – 2025
- CSCW: The Journal of Collaborative Computing and Work Practices 2023
- ACM Conference on Computer Supported Cooperative Work (CSCW) 2020, 2022, 2024
- International Communication Association (ICA) 2018, 2019, 2021
- Journal of Quantitative Description: Digital Media 2021
- Harvard Kennedy School Misinformation Review 2020

Honors & Awards

2021 – 2023	Presidential Fellowship ≈\$126,156, Northwestern University
2018 – 2023	Conference Travel Grants ≈\$16,300, Northwestern University
2022	Best Student Paper Award, Computational Methods Division, ICA
2021	Dissertation Research Grant \$1,500, Northwestern University
2018 – 2021	Graduate Student Assistantship ≈\$177,594, Northwestern University
2015 – 2017	Graduate Student Fellowship, Full Scholarship ≈\$125,800, University of Notre Dame
2016	Data Science Summer Tuition Scholarship \$2,000, University of Notre Dame
2015	Liberty Mutual Bravo Award, Liberty Mutual Insurance Company

2013	Dr. Irving Sirlin Distinguished Honor Scholar Award, DePauw University
2012 – 2013	Dean’s List, DePauw University
2012	Responsible Scholars Award, Scholarship \$1,000, Liberty Mutual Insurance Company
2012	Harold M. Schulweis Fellowship \$3,000, Jewish World Watch
2009 – 2013	President’s Award for Excellence, Full Scholarship \approx \$200,000, DePauw University

Professional Affiliations

ACM: Association for Computing Machinery

AAAI: Association for the Advancement of Artificial Intelligence

IEEE: Institute of Electrical and Electronics Engineers

ICA: International Communication Association

ISA: International Studies Association