Dakota S. Murray

Phone: +1 (828) 691 5724
email: dakmurra@iu.edu; dakota.s.murray@gmail.com
URL: http://www.dakotamurray.me
Orcid id: 0000-0002-7119-0169
GITHUB: https://github.com/murrayds

Current Position

Research Assistant
School of Informatics, Computing, and Engineering, Indiana University Bloomington

Areas of Specialization

Science of Science • Computational Social Science • Data Science

Education

2016-present   PH.D. in Informatics
Track in *Computing, Culture, and Society*; Minor in *Statistics*
School of Informatics, Computing, and Engineering, Indiana University Bloomington
advisors: Dr. Cassidy R. Sugimoto and Dr. Yong-Yeol Ahn

2012-2016   B.S. in Computer Science
Department of Computer Science, Appalachian State University
advisor: Dr. Mitch Parry

Appointments and Employment

2019-present   Research Assistant
Dr. Yong-Yeol Ahn, *Science Genome Project*
School of Informatics, Computing, and Engineering, Indiana University

2018-2019   Associate Instructor
School of Informatics, Computing, and Engineering, Indiana University

2017 (Summer)   Visiting Scholar
Center for Science and Technology Studies, Leiden University

2016-2018   Research Assistant
Dr. Cassidy Sugimoto, *Scholarly Communication Lab*
School of Informatics, Computing, and Engineering, Indiana University

2013-2016   Research Assistant and Web Developer
Department of Computer Science, Appalachian State University

2015
(Summer & Fall)

NIFS Student Intern
NASA Langley Research Center

Publications

Journal articles and Indexed Conference Proceedings

–   **Murray, D.**, Yoon, J., Kojaku, S., Costas, R., Jung, W., Milojević, S., & Ahn, Y. (in submission). Unsupervised embedding of trajectories captures the latent structure of mobility.

2020   **Murray, D.**, Boothby, C., Zhao, H., Minik, V., Bérubé, N., Larivière, V., & Sugimoto, C. R. (2020). Exploring the personal and professional factors associated with student evaluations of tenure-track faculty. PLOS ONE, 15(6), e0233515. https://doi.org/10.1371/journal.pone.0233515

2020   Boothby, C., **Murray, D.**, Sugimoto, C. R., Waggy, A. P., & Tsou, A. (2020). Credibility of Scientific Information on Social Media: Variation by Platform and Presence of Formal Credibility Cues [Preprint]. SocArXiv. https://doi.org/10.31235/osf.io/4dhcz

2020   Brown, J., **Murray, D.**, Furlong, K., Coco, E., & Dablander, F. (2020). A Breeding Pool of Ideas: Analyzing Interdisciplinary Collaborations at the Complex Systems Summer School [Preprint]. SocArXiv. https://doi.org/10.31235/osf.io/e3z4v

2019   Robinson-Garcia, N., Sugimoto, C. R., **Murray, D.**, Yegros-Yegros, A., Larivière, V., & Costas, R. (2019). The many faces of mobility: Using bibliometric data to measure the movement of scientists. Journal of Informetrics, 13(1), 50–63.

2019   Bu, Y., **Murray, D. S.**, Xu, J., Ding, Y., Ai, P., Shen, J., & Yang, F. (2018). Analyzing scientific collaboration with "giants" based on the milestones of career. Proceedings of the Association for Information Science and Technology, 55(1), 29–38.

2019   Murray, D., Siler, K., Larivière, V., Chan, W. M., Collings, A. M., Raymond, J., & Sugimoto, C. R. (2019). Author-Reviewer Homophily in Peer Review. BioRxiv, 400515. https://doi.org/10.1101/400515

2018   **Murray, D.**, Siler, K., Lariviére, V., Collings, A. M., Raymond, J., Sugimoto, R., (under revision). Gender and international diversity improves equity in peer review. PLOS Bio.

2018   Robinson-Garcia, N., Sugimoto, C. R., **Murray, D.**, Yegros-Yegros, A., Larivière, V., & Costas, R. (2018). Scientific mobility indicators in practice: International mobility profiles at the country level. El Profesional de La Información, 27(3), 511.

2018   Bu, Y., Ding, Y., Liang, X., & **Murray, D. S.** (2018). Understanding persistent scientific collaboration. Journal of the Association for Information Science and Technology, 69(3), 438–448.

2018   Bu, Y., **Murray, D. S.**, Ding, Y., Huang, Y., & Zhao, Y. (2018). Measuring the stability of scientific collaboration. Scientometrics, 114(2), 463–479.

2018   Chinchilla-Rodríguez, Z., Miao, L., **Murray, D.**, Robinson-García, N., Costas, R., & Sugimoto, C. R. (2018). A Global Comparison of Scientific Mobility and Collaboration According to National Scientific Capacities. Frontiers in Research Metrics and Analytics, 3.

2017   Sugimoto, C. R., Robinson-Garcia, N., **Murray, D. S.**, Yegros-Yegros, A., Costas, R., & Larivière, V. (2017). Scientists have most impact when they're free to move. Nature, 550(7674), 29–31.

2017   Das, S., Goard, J., & **Murray, D.** (2017), How Celebrities Feed Tweeples with Personal and Promotional Tweets: Celebrity Twitter Use and Audience Engagement. In Proceedings of the 8th International Conference on Social Media and Society (pp. 30:1–30:5). New York, NY, USA: ACM.

OTHER PUBLICATIONS

2019   Sugimoto C, Allen L, Jeroen B et al. Rethinking Impact Factors: New Pathways in Journal Metrics. F1000Research 2019, 8:671 (document).

2018   Cassidy R. Sugimoto, **Dakota S. Murray**, and Vincent Larivière (April 26, 2018), "Open citations to open science", *ISSI Blog*.

2017   Rodrigo Costas, Alfredo Yegros, Vincent Larivière, Cassidy Sugimoto, Nicolas Robinson-Garcia, **Dakota S. Murray** (October 5, 2017), "The global scientific brain: Policy implications of barriers to scientific mobility", *CWTS Blog*.

Conference Works and Talks

REFEREED CONFERENCE WORKS

2019   **Murray, D**., Larivière, V., Sugimoto C. R., (2019). Context matters: how the usage and semantics of hedging terms differs between sections of scientific papers. ISSI2019. Rome, Italy.

2019   **Murray, D**., Lamers, W., Boyack K., Larivière, V., Sugimoto C. R., van Eck, N., Waltman L., (2019). Measuring disagreement in science. ISSI2019. Rome, Italy.

2019   Miao, L., **Murray, D**., Larivière, V., Sugimoto, C., Jung, W-S., & Yeol, Y-Y., (2019). The disciplinary structure of nation's scientific production. NetSci2019. Burlington, Vermont, USA.

2017   **Murray, D**., Zhou, H., Minik, V., Larivière, V., & Sugimoto, C. R., (2017). Are Great Researchers Terrible Teachers? How research and teaching performance relate at U.S. universities. ISSI2017. Wuhan, China

2017   Robinson-Garcia, N., Sugimoto, C.R., **Murray, D.**, Yegros-Yegros, A., Larivière, V., & Costas, R. (2017). Unveiling the multiple faces of mobility: Towards a taxonomy of scientific mobility types based on bibliometric data. STI2017. Paris, France.

2017   Chinchilla-Rodriguez, Z., Miao, L., **Murray, D.**, Robinson-Garcia, N., Costas, R., & Sugimoto, C.R. (2017). A large-scale comparison of the position of countries in international collaboration and mobility according to their scientific capacities. STI2017. Paris, France.

2017   **Murray, D.**, Sugimoto, C.R., & Lariviere, V. (2017). A balanced portfolio? The relationship between gender and funding for US academic professors. STI2017. Paris, France.

2017   Miao, L., **Murray, D.**, Chinchilla-Rodriguez, Z., Lariviere, V., & Sugimoto, C.R. (2017). Glass boundaries: Differences in interdisciplinarity between men and women. STI2017. Paris, France.

2018   Zaida Chinchilla-Rodríguez, presented by **Dakota Murray** , (2018) Moving on up: the relationship between international mobility and global leadership. 4S, Sydney, Australia

2018   Cassidy Sugimoto, **Dakota Murray**, & Vincent Larivière, Open panel,*The Global Scientific Brain: International Mobility of the Scientific Workforce*, 4S Sydney, Sydney, Australia

Invited talks

2020   **Murray, D.**, Lamers, W., Eck, N., Boyack, K., Larivière, V., Waltman, L., Sugimoto, C.R. (2020). Measuring disagreement in science. CWTS Colloquium. Leiden Univeristy, Netherlands.

2020   **Murray, D.** Embeddings capture the multiscale structure of scientific mobility (2020). Data Science Student Consortium. Univeristy of Michigan, Ann Arbor, USA.

Posters

2020   **Murray, D.**, Yoon, J., Kojaku, S., Costas, R., Jung, W., Milojević, S., & Ahn, Y. (2020). Unsupervised embedding of trajectories captures the latent structure of mobility. NetSci 2020. Rome, Italy.

2020   **Murray, D.**, Yoon, J., Kojaku, S., Costas, R., Jung, W., Milojević, S., & Ahn, Y. (2020). Unsupervised embedding of trajectories captures the latent structure of mobility. IC2S2 2020. Boston, USA.

2020   **Murray, D.**, Cabanac, G., Larivière, V., & Sugimoto, C.R. (2020). Honoring our dead: text mining a century of academic obituaries in The Lancet. IC2S2 2020. Boston, USA.

2020   Miao, L., **Murray, D.**, Larivière, V., Sugimoto, C.R., Jung, W & Ahn, Y. (2020). The scientific development of nations. IC2S2 2020. Boston, USA.

Workshops and Schools

2019   *Complex Networks Winter Workshop*, Quebec City, Canada
2019   Invited Scholar, *MIDAS Data Science Symposium*, Ann Arbor, Michigan
2019   Santa Fe Institute's *Summer School in Complex Systems*, Santa Fe, New Mexico
2017   Lorentz Center Workshop *Rethinking Impact Factors: New Pathways in Journal Metrics*, Leiden, Netherlands.

Grants, honors, and awards

Grants and other funding

2019   GISA Departmental Travel Award, School of Informatics, Computing, and Engineering - $950
2017-2018   Integrated Doctoral Education with Application to Scholarly Communication (IDEASc) fellowship, Institute of Museum and Library Services
2017   Cross-track collaboration travel grant, School of Informatics, Computing, and Engineering - $500

Academic awards

2016

	Graduated B.S. *Summa Cum Laude* and with departmental honors
2012-2016	Chancellor's List (GPA > 3.85), Appalachian State Univeristy
2012, 2013	NSF Academy of Science Scholarship at Appalachian State University

Teaching

Indiana University Bloomington

Fall 2018-Spring 2019	Associate Instructor, Informatics Capstone I & II: Design and Development of an Information System

Appalachian State University

2015-2016	Computer Science Tutor, Appalachian State University
2013	Lab Assistant, Computer Science I and II

Guest Lectures

Fall 2019	Introduction to bibliometric indicators in your career. *Article writing for graduate students.* Indiana University Bloomington.
Fall 2019	Excel workshop for beginners. *Understanding Social Data.* Indiana University Bloomington.
Fall 2019	Introduction to Machine Learning. *Sociology: Understanding Social Data.* Indiana University Bloomington.
Fall 2019	A gentle overview of academic conferences. *Informatics: Intro to informatics.* Indiana University Bloomington.
Spring 2018	Invited presenter and discussion leader. *Informatics: intro to informatics.* Indiana University Bloomington.

Service

Reviewing

(Year of first review): *Quantitative Science Studies* (2020); *Frontiers in Research Analytics and Metrics* (2020); *Advances in complex systems* (2020); *International Journal of Information Management* (2019); *Scientometrics* (2019); *PLoS Computational Biology* (2019); *PLoS One* (2017); *Journal of Informetrics* (2017); *Journal of the Association for Information Science & Technology* (2017)

Indiana University Bloomington

2017-2018	Representative, Graduate and Professional Student Government, Indiana University Bloomington
2017	Publicity Chair, Graduate Informatics Student Association, Indiana University Bloomington
2016	Social Chair, Graduate Informatics Student Association, Indiana University Bloomington

Professional organizations

2018 - present	Member, Society for the Social Studies of Science
2017 - present	Member, International Society for Scientometrics and Informetrics

Last updated: November 2, 2020 • Typeset in X̯ɪTEX

http://nitens.org/taraborelli/cvtex