

Dakota S. Murray

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Current Position

Associate Instructor
School of Informatics, Computing, and Engineering, Indiana University Bloomington

Areas of Specialization

Science of Science • Science and Technology Studies • 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
- 2015-2016 Research Assistant
Department of Computer Science, Appalachian State University

2015 NIFS Student Intern
(Summer & Fall) NASA Langley Research Center

2013-2014 Web Developer/Research Assistant
Department of Computer Science, Appalachian State University

Publications

JOURNAL ARTICLES AND INDEXED CONFERENCE PROCEEDINGS

- 2019 **Murray, D.**, Boothby, C., Zhao, H., Minik, V., Bérubé, N., Larivière, V., & Sugimoto, C. R. (2019). Exploring the personal and professional factors associated with student evaluations of teachers. SocArXiv.
- 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.
- 2018 **Murray, D.**, Siler, K., Larivière, 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., Lariviere, 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.

PANELS

- 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

WORKSHOPS AND SCHOOLS

- 2019 2019 *Complex Networks Winter Workshop*, Quebec City, Canada
- 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	Invited Scholar, MIDAS Data Science Symposium, University of Michigan Graduated B.S. <i>Summa Cum Laude</i> and with departmental honors
2012-2016	Chancellor's List (GPA > 3.85), Appalachian State University
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
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APPALACHIAN STATE UNIVERSITY

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

GUEST LECTURES

Fall 2019	Excel workshop for beginners, <i>Understanding Social Data</i> at IU
Fall 2019	Introduction to Machine Learning and Social Networks, Sociology 110, <i>Understanding Social Data</i> at IU
Spring 2018	Invited presenter and discussion leader in the <i>Introduction to Informatics</i> course at IU

Service

REVIEWING

(Year of first review): *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