

Jue Wu, PhD

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ACADEMIC EMPLOYMENT

Postdoctoral Scholar **University of California, Berkeley**
Higher Education, 2022 - present
Advisor: Rodolfo Mendoza-Denton

EDUCATION

PhD **Northwestern University**
Learning Sciences, December 2021
(Certificate: Cognitive Science)
Committee: David Uttal (Chair), Bennett Goldberg, Eleanor O'Rourke
Areas of Expertise: STEM Education, Diversity and Inclusion, Higher Education

MS **Northwestern University**
Statistics, December 2021

BS **Renmin University of China**
Applied Psychology, Economics, June 2014

JOURNAL ARTICLES AND PROCEEDINGS

Wu, J., & Uttal, D. H. (2024). Diversifying Computer Science: An Examination of the Potential Influences of Women-in-Computing Clubs. *Science Education*. <http://doi.org/10.1002/sce.21861>

Wu, J., Cropps, T. A., Phillips, C. M. L., Boyle S. R., & Pearson, Y. E. (2023). Applicant Qualifications and Characteristics in STEM Faculty Hiring: An Analysis of Faculty and Administrator Perspectives. *International Journal of STEM Education*, 10, Article 41. <https://doi.org/10.1186/s40594-023-00431-w>

Wu, J., Hokanson, S. C., & Goldberg, B. B. (2022). Change mapping of models to diversify STEM faculty as practiced by Alliances for Graduate Education and the Professoriate. *Journal of Diversity in Higher Education*. Advance online publication. <https://doi.org/10.1037/dhe0000425>

Wu, J., & Uttal, D. H. (2022). Using organizational change theories to examine women-in-computing groups. In C. Chinn, E. Tan, C. Chan & Y. Kali (Eds.), *Proceedings of International Conference of the Learning Sciences 2022* (pp. 1912-1913). International Society of the Learning Sciences.

Wu, J., Atit, K., Ramey, K. E., Flanagan-Hall, G. A., Vondracek, M., Jona, K., & Uttal, D. H. (2021). Investigating students' learning through co-designing with technology. *Journal of Science Education and Technology*, 30(4), 529-538. <https://doi.org/10.1007/s10956-020-09897-7>

Wu, J., & Uttal, D. H. (2020). Beyond the leaky pipeline: Developmental pathways that lead college students to join or return to STEM majors. *Journal of Research in STEM Education*, 6(2), 64-90. <https://doi.org/10.51355/jstem.2020.80>

Flanagan-Hall, G. A., **Wu, J.**, Atit, K., Ramey, K. E., Vondracek, M., Jona, K., & Uttal, D. H. (2018). Exploring design trade-offs in incorporating making activities into high school science curriculums. In *Proceedings of International Conference of the Learning Sciences, ICLS* (Vol. 2, No. 2018-June, pp. 961-964). International Society of the Learning Sciences.

Lam, W. S. E., & **Wu, J.** (Revise and Resubmit). Chronotopes of transnational literacies: How youth live and imagine social worlds in their digital media practices.

Wu, J., Guzman, L., Sanclemente, F., Patt, C., Epigg, A., Medina, F., & Mendoza-Denton, R. (Under Review). Advancing equity through organizational structure: Evidence from the workplace and higher education.

Wu, J., Patt, C., & Mendoza-Denton, R. (Under Review). Can Program Clarity Mitigate Disparities in Graduate Student Outcomes?

Hu, X., **Wu, J.**, & Fernandez, F. (Under Review). Examining the Dual Enrollment Educational Pathway and Occupational Attainment.

Cropps, T. A., **Wu, J.**, Boyle, S. R., Phillips, C. M., Pearson, Y. E., & Mattingly, S. P. (Under Review). Faculty and Administrator Perceptions of Diversity Statements in STEM Faculty Hiring.

GRANTS AND AWARDS

2022	\$250,000	Postdoctoral Supplement, National Science Foundation
2021	\$8,500	Dissertation Year Fellowship, Northwestern University
2018	\$800	School of Education Travel Grant, Northwestern University
2018	\$500	Cognitive Science Travel Grant, Northwestern University
2016	\$29,880	University Fellowship, Northwestern University

CONFERENCE PRESENTATIONS

Wu, J., Cropps, T. A., Boyle, S. R., Phillips, C. M. L., & Pearson, Y. E. (2024, April). Importance of Diversity, Equity, and Inclusion in STEM Faculty Hiring. Paper presented at the 2024 American Educational Research Association Annual Meeting, Philadelphia, PA.

Wu, J., Patt, C., & Mendoza-Denton, R. (2024, April). Reducing Discrimination and Increasing Belonging in Graduate Education through Structure. Paper presented at the 2024 American Educational Research Association Annual Meeting, Philadelphia, PA.

Wu, J., Patt, C., & Mendoza-Denton, R. (2023, November). A Path Analysis of Program Clarity and Graduate Student Outcomes: The Effect of Race. Paper presented at the Association for the Study of Higher Education's 2023 General Conference, Minneapolis, MN.

Cropps, T. A., Pearson, Y. E., Boyle, S. M., Phillips, C. M. L., & **Wu, J.** (2023, June). Faculty Perceptions of Diversity Statements in STEM Faculty Job Applications. Paper presented at the 2023 American Society for Engineering Education Annual Conference & Exposition, Baltimore, MD.

Wu, J., Patt, C., & Mendoza-Denton, R. (2023, April). Advancing Equitable Outcomes in STEM Doctoral Education: The Effect of Departmental Advising and Guidance. Paper presented at the 2023 American Educational Research Association Annual Meeting, Chicago, IL.

Wu, J., Phillips, C. M. L., Cropps, T. A., Boyle, S. R., & Pearson, Y. E. (2023, April). The Importance of Institutional and Advisor Characteristics in STEM Faculty Hiring. Paper presented at the 2023 American Educational Research Association Annual Meeting, Chicago, IL.

Lam, W. S. E., & **Wu, J.** (2023, April). Chronotopes of Transnational Literacies in the Digital Practices of Two Youth Migrants. Paper presented at the 2023 American Educational Research Association Annual Meeting, Chicago, IL.

Cropps, T. A., Boyle, S. R., Phillips, C. M. L., **Wu, J.**, & Pearson, Y. E. (2023, April). Faculty Perceptions of Diversity Statements in STEM Faculty Job Applications. Paper presented at the 2023 American Educational Research Association Annual Meeting, Chicago, IL.

Boyle, S. R., Phillips, C. M. L., Pearson, Y. E., Cropps, T. A., & **Wu, J.** (2022, November). Analysis of applicant diversity statement requests in STEM faculty job postings. Poster presented at the Alliance for Graduate Education and the Professoriate (AGEP) National Conference; Corpus Christi, TX.

Wu, J., & Uttal, D. H. (2022, June). Using organizational change theories to examine women-in-computing groups. Poster presented at the 2022 International Conference of the Learning Sciences, Online.

Wu, J., Hokanson, S. C., & Goldberg, B. B. (2022, April). Change mapping of models to diversify STEM faculty in higher education. Paper presented at the 2022 American Educational Research Association Annual Meeting, San Diego, CA.

Lam, W. S. E. & **Wu, J.** (2022, March). Lived and imagined chronotopes in the transnational digital literacies of two youth migrants. Paper presented at the 2022 American Association for Applied Linguistics Conference, Pittsburgh, PA.

Wu, J., & Goldberg, B. B. (2021, February). AGEP change mapping analyses. Webinar presented at the 2021 AGEP National Research Conference, Online.

Atit, K., Ramey, K., Flanagan-Hall, G. A., **Wu, J.**, Vondracek, M., & Uttal, D. (2018, August). Introducing making into high school science classrooms: Exploring the design trade-offs in bridging the formal-informal divide. Presentation at the Connected Learning Summit, Cambridge, MA.

Flanagan-Hall, G. A., **Wu, J.**, Atit, K., Ramey, K. E., Vondracek, M., Jona, K., & Uttal, D. H. (2018, June). Exploring design trade-offs in incorporating making activities into high school science curriculums. Paper presented at the 13th International Conference of the Learning Sciences, London, UK.

Wu, J., & Uttal, D. H. (2018, May). Joining STEM: Reconceptualizing the leaky pipeline metaphor in a developmental context. Paper presented at the 48th Annual Meeting of the Jean Piaget Society, Amsterdam, Netherlands.

Flanagan-Hall, G. A., **Wu, J.**, Atit, K., Ramey, K. E., Spaulding, A., Vondracek, M., Jona, K., & Uttal, H. (2018, May). Intertwining coding with standard science curricula. Video showcase presented at the 2018 STEM for All Video Showcase: Transforming the Educational Landscape, Online.

Wu, J., & Uttal, D. H. (2016, September). Beyond the leaky pipeline: What learning experiences drive students to join STEM? Poster presented at the 1st Learning Sciences Graduate Student Conference, Chicago, IL.

TEACHING EXPERIENCE

Learning and Thinking in Organizations, 2018 – 2019 (with Dr. David Uttal)

- Co-designed course materials, assignments, and exams.
- Graded assignments, exams, and papers, and provided constructive feedback.
- Facilitated weekly classroom discussions and group activities.
- Held regular office hours to address students' questions and concerns.

Economics of Education, 2018 (with Dr. Kirabo Jackson)

- Led weekly recitation classes to review course materials and provide extra examples.
- Prepared and delivered comprehensive solutions to problem sets.
- Graded assignments and exams with constructive feedback.
- Held regular office hours to address students' questions and concerns.

6-8th grade Science, Engineering & Technology Honors, 2016

K-1st grade Geometric Measurement, 2015

TEACHING INTERESTS

Undergraduate Courses

Research Methods

Cognitive Science

Learning and Organizations

Graduate Seminars

Quantitative Research Methods

STEM Equity

Policy in Higher Education

INVITED TALKS

Wu, J. (2023, December). Diversity and Equity in STEM Higher Education: A Multilevel Perspective. Institute of Education, Tsinghua University, China.

Wu, J. (2023, December). Diversity and Equity in STEM Higher Education: A Multilevel Perspective. School of Education, Shanghai Jiao Tong University, China.

SERVICE

Executive Board Member, Berkeley Humanities & Social Sciences Association

Site Visit Panelist, National Science Foundation

Organizing Committee, 2020-2021 Alliance for Graduate Education and Professoriate Research Conference

AD HOC REVIEWER

Journal of Postsecondary Student Success (Editorial Board Member)

Journal of Diversity in Higher Education

Journal of Research in Science Teaching

PLOS One

Frontiers in Psychology

American Educational Research Association Annual Meeting

PROFESSIONAL MEMBERSHIPS

American Educational Research Association

International Society of the Learning Sciences

Association for the Study of Higher Education

TECHNICAL SKILLS

R, SPSS, Stata, NVivo