

YUPEI DUAN

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EDUCATION

Ph.D.	University of Missouri, Columbia, Missouri, USA -- <i>Information Science & Learning Technologies</i>	2023-Present
M.Sc.	University of Missouri, Columbia, Missouri, USA -- <i>Information Science & Learning Technologies</i>	2019-2021
B. Sc.	Capital Normal University, Beijing, China -- <i>Biological Sciences</i>	2002-2006

PROFESSIONAL EXPERIENCE

Future Leadership Academy, Hainan, China	2017-2023
• <i>Director of Curriculum Development Center</i>	
• <i>Academic Dean</i>	
• <i>Science Teacher</i>	
Beijing No.4 High School, Beijing, China	2006-2017
• <i>Director of Middle School at International Division</i>	
• <i>Director of Science Education at Junior High Division</i>	
• <i>Science Teacher</i>	
• <i>Biology Teacher</i>	

RESEARCH EXPERIENCE

University of Missouri, Columbia, Missouri, USA	
• <i>Research Assistant at Technology Enhanced Learning Lab</i>	2023-Present
• <i>Research Assistant at Information Experience Lab</i>	2023-Present
• <i>Research Assistant at “Build It Green” Project</i>	2023-2025

JOURNAL ARTICLES

- Duan, Y.**, Xu, X., He, H., Li, S. & Gu, Y. (2025). Blending Mixed Reality and Generative AI to Teach Geography: An MR+GenAI Learning Environment. *Journal of Interactive Learning Research*, 36(1), 83-100. Waynesville, NC: Association for the Advancement of Computing in Education (AACE).
- Duan, Y.**, Chen, Y. (2015). Construct Models of Human Circulatory System to Improve Teaching and Learning. *Bulletin of Biology*. 50(10), 33-35+63. (in Chinese)
- Duan, Y.** (2015). The Golden Key to The Door of The World of Life -- The Content in BNU edition Biology Textbook Related to Inquiry Ability. *Journal of Chinese Foundation Curriculum*, 03, 62–64. (in Chinese)
- Duan, Y.**, WANG Y., LI, J., & GONG, Y. (2013). The Rising Stage of Sciences – The Development of School-based Elective Course “Science Around Us” and the Cooperation Between Diverse Subject Teachers. *Beijing Education*, 04, 42–44. (in Chinese)
- Chen, Y., LEI, M., & **Duan, Y.** (2010). Make School-based Lab Reports to Improve the Efficiency of Instructions Related to Experiments at Middle School. *Bulletin of Biology*, 45(04), 42–45. (in Chinese)
- Duan, Y.** (2009). Using Blog to Improve Middle-School Biology Teaching and Learning. *Bulletin of Biology*, 44(04), 42-22. (in Chinese)
- Duan, Y.** (2015-2021). (Columnist) Popular Science Column “Play Science Games at Home”. *Journal: Knowledge is Power* Retrieved April 4, 2024, from <http://scishine.cn/archives/2628> (in Chinese)

BOOKS

- Jenson-Elliott, C. (2022). Weeds Find a Way. Beijing, CN: Beijing United Publishing co., LTD. ISBN: 9787559662286 (Chinese Translator: **Duan, Y.**)

Gonick, L., & Wessner, D. (2019). *The Cartoon Guide to Biology* (Illustrated edition). Beijing, CN: China Science and Technology Press/ Popular Science Pres
ISBN:9787110099797 (Chinese Translator: **Duan, Y.**)

Kelly, R. (2017). *ULTIMATE GUIDE - OCEAN*. Miles Kelly. ISBN: 9787531581789
(Chinese Translator: **Duan, Y.**)

Han, Q., et al. (2016) *Hundred Thousand Whys: Life (Sixth Edition)* Shanghai, CN: Juvenile & Children's Publishing House, JCPH. ISBN: 9787532498017 (Co-
Author: **Duan, Y.**)

CONFERENCE PROCEEDINGS

Duan, Y., Xu, X., Wang, F., Shyu, C-R., Islam, S.K., Eliza, S., Flink, J., Gu, Y., He, H., Li, S., Murrell, S., Nalmas, A., & Almasri, M. (2025 accepted). *Nurturing Tomorrow's Engineers: Strengthening Self-Efficacy and Interest in Microelectronics through Virtual Reality*. Association for Educational Communications & Technology International Convention 2025. Las Vegas, NV. USA.

Duan, Y., Xu, X., Wang, F., Shyu, C-R., Islam, S.K., Eliza, S., Flink, J., Gu, Y., He, H., Li, S., Murrell, S., Nalmas, A., & Almasri, M. (2025 accepted). *Enhancing student self-efficacy and interest in microelectronics through immersive virtual reality in an informal learning environment*. In Proceedings of the 25th IEEE International Conference on Advanced Learning Technologies (pp.). Institute of Electrical and Electronics Engineers (IEEE).

Duan, Y., Xu, X., Gu, Y., Li, S., Fowler, S-Y., Claunch, H., Snyder, J., He, H., & Bueno V., J. (2025 accepted). *The usability of an artificial intelligence enhanced virtual standard patient (AI-VSP) in nursing*. American Educational Research Association Annual Meeting, American Educational Research Association (AERA), Denver, CO.

Snyder, R., Webb, C., **Duan, Y.**, Zangori, L., Cole, L. (2025 accepted) *The integration of place in rural science education: Resources of place realized by middle school teachers through implementing a place-based engineering design unit*, American Educational Research Association Annual Meeting, American Educational Research Association (AERA), Denver, CO.

Justice, J., **Duan, Y.**, Webb C., Zangori, L. (2024, November). *Build It Green: A New Place-Based Energy Unit for Science Educators*. Science Teachers of Missouri 2024 Conference. Columbia, Missouri, USA.

Duan, Y., Xu, X., Li, S., Xue, L., He, H., & Gu, Y. (2024, October). *Movement Matters: How A Virtual Reality Learning System Facilitates US Geographic Learning for International Students*. Association for Educational Communications & Technology International Convention 2024. Kansas City, USA.

Glaser, N., **Duan, Y.**, Calyam, P., Li, S., Nuguri, S. S., Kambhampati, A., Parishani, Z., & Singh K.P.. *Co-design of a virtual reality cybersecurity training platform for neurodiverse adults*. Association for Educational Communications & Technology International Convention 2024. Kansas City, USA

Glaser, N., Calyam, P., **Duan, Y.**, Li, S., Nuguri, S. S., Ousely, C., Kambhampati, A., Parishani, Z., Joshi, A. C., & Yang, M. (2024). *Preliminary analysis of empathy-driven design and inclusive cybersecurity education: The initial phase of the uSucceed project's virtual reality curriculum for neurodiverse adults in STEM*. In Proceedings of the 10th International Conference of the Immersive Learning Research Network (iLRN2024).

Duan, Y. (2018, April 12-14). *Another Song of Ice and Fire: A Teacher's Findings, Thoughts, and Actions about STEAM Education in China* [Workshop Host]. International Technology and Engineering Educators Association 80th Annual Conference, Atlanta, Georgia, USA.

Duan, Y. (2017, March 25-16). *Introduction to Project-Based Learning at Beijing No.4 High School International Division* [Teacher Professional Development Host]. OESIS-CERNET Beijing, Beijing, China.

JORNAL AND CONFERENCE ARTICLES REVIEWER

2025 Association for Educational and Communications and Technology International Convention

The 25th IEEE International Conference on Advanced Learning Technologies

2024 Association for Educational and Communications and Technology International Convention

POPULAR SCIENCE TV PROGRAMS

Program Designer & Host. *Four-Dimensional Science Masters.* 四维科学人. China Central Television. Retrieved April 4, 2024, from <http://scishine.cn/archives/866> (in Chinese)

Program Designer & Host. *Science Show.* 科学达人秀. China Central Television. Retrieved April 4, 2024, from <http://scishine.cn/archives/608> (in Chinese)

Program Designer *Miracle Numbers.* 心里有数. China Central Television. Retrieved April 4, 2024, from <http://scishine.cn/archives/2738> (in Chinese)

HONORS & AWARDS

Scholarship, London Recognition Sch Fund, MU	2025-2026
Scholarship, London Recognition Sch Fund, MU	2024-2025
Scholarship, Jonassen Endow Info Science, SISLT, MU	2023-2024
Scholarship, London Recognition Sch Fund, MU	2023-2024

PROFESSIONAL AFFILIATIONS

- Association for Educational Communications and Technology (AECT)
- Institute of Electrical and Electronics Engineers (IEEE)
- American Educational Research Association (AERA)

PROFESSIONAL DEVELOPMENT

- Engagement, Equity, & Inclusion, a Workshop at Teaching for Learning Center, University of Missouri 08/2023

- Learning How to Learn, an online non-credit course authorized by Deep Teaching Solutions and offered through Coursera 05/2022
- Think Again I: How to Understand Arguments, an online non-credit course authorized by Duke University and offered through Coursera 01/2022
- Certificate in School Management and Leadership, an Online PD authorized by the Graduate School of Education of Harvard University and powered by Harvard Business School Online. 08/2021
- Advanced Writing, an online non-credit course authorized by the University of California, Irvine and offered through Coursera 08/2020
- Certificate of Attendance of IB-MYP Sciences: Delivering the MYP curriculum Cat 2, International Baccalaureate Organization, Beanstalk International Bilingual School - Shunyi Campus, Beijing, China 11/2019
- Completed the certificate program entitled Diversity and Inclusion authorized by the School of Industrial and Labor Relations at Cornell University through eCornell. 05/2019
- Certificate of Attendance of IB-PYP Assessment, International Baccalaureate Organization, Canadian International School, Beijing, China 11/2018
- Certificate of Attendance of IBMYPC-IBMYP, International Baccalaureate Organization, Singapore International School, Suzhou, China 07/2018
- Certification for IB PYP administrator IB-PYP, International Baccalaureate Organization (Online) 06/2018
- STEAM Education workshop, International Technology and Engineering Education Association 80th annual conference, Atlanta, GA, the USA 04/2018
- Sharestart Teaching model training in Sharestart Asia Conference, National Taiwan University, Taipei, China Taiwan. 12/2017

- STEAM Education workshop, International Technology and Engineering Education Association 79th annual conference, Dallas, TX, the USA 03/2017
- Instructional Design training, National Normal Universities Academic Forum on Biology Teaching, Haikou, Hainan, China 11/2016
- Certificate of Maker Education mentor, Tsinghua University, Beijing, China 06/2016

Computer Skills

- Operating Systems: Windows, MacOS, iOS
- Applications & Software: Unity, OpenSimulator, Twine, Construct 3, Office series, Adobe series, etc.
- Online Education Tools: VoiceThread, Canvas, Moodle, Google Drive, Wix, Adobe Captivate, LucidCharts, Padlet, Kahoot, Zoom, etc.