

# YUPEI DUAN

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## EDUCATION

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

## PROFESSIONAL EXPERIENCE

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Future Leadership Academy, Hainan, China	2017-2023
<ul style="list-style-type: none"><li>• <i>Director of Curriculum Development Center</i></li><li>• <i>Academic Dean</i></li><li>• <i>Science Teacher</i></li></ul>	
Beijing No.4 High School, Beijing, China	2006-2017
<ul style="list-style-type: none"><li>• <i>Director of Middle School at International Division</i></li><li>• <i>Director of Science Education at Junior High Division</i></li><li>• <i>Science Teacher</i></li><li>• <i>Biology Teacher</i></li></ul>	

## RESEARCH EXPERIENCE

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University of Missouri, Columbia, Missouri, USA	
<ul style="list-style-type: none"><li>• <i>Research Assistant at Technology Enhanced Learning Lab</i></li><li>• <i>Research Assistant at Information Experience Lab</i></li><li>• <i>Research Assistant at “Build It Green” Project</i></li></ul>	2023-Present 2023-Present 2023-2025

## JOURNAL ARTICLES

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- 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

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- 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 Press  
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

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- 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 80<sup>th</sup> 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

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2025 Association for Educational and Communications and Technology International Convention

The 25<sup>th</sup> IEEE International Conference on Advanced Learning Technologies

2024 Association for Educational and Communications and Technology International Convention

## POPULAR SCIENCE TV PROGRAMS

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**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

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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

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

## PROFESSIONAL DEVELOPMENT

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- 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

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- 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.